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at Goddard Space Flight Center
in Fiscal Year 1994**



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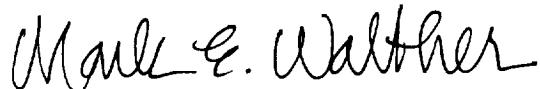
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13. ABSTRACT (Maximum 200 words) This publication is a compilation of scientific and technical material that was researched, written, prepared, and disseminated by the Center's scientists and engineers during FY94. It is presented in numerical order of the GSFC author's sponsoring technical directorate; i.e., Code 300 is the Office of Flight Assurance, Code 400 is the Flight Projects Directorate, Code 500 is the Mission Operations and Data Systems Directorate, Code 600 is the Space Sciences Directorate, Code 700 is the Engineering Directorate, Code 800 is the Suborbital Projects and Operations Directorate, and Code 900 is the Earth Sciences Directorate. The publications database contains publication or presentation title, author(s), document type, sponsor, and organizational code. This is the second annual compilation for the Center.					
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PREFACE

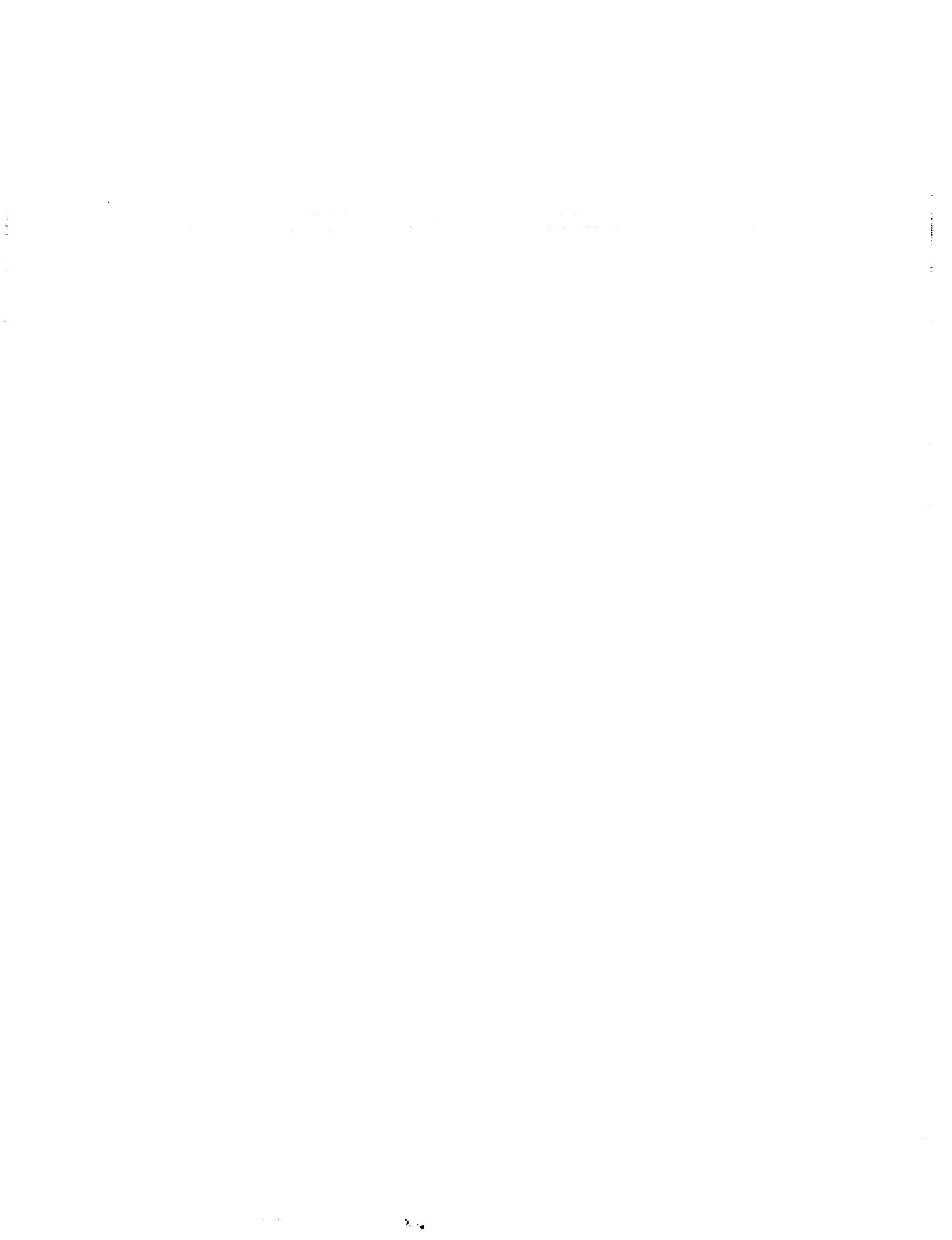
This Technical Memorandum is a compilation of the research and technology output—in a variety of forms—of NASA Goddard Space Flight Center for fiscal year 1994.

Our intent in presenting this information is to continue to establish a greater awareness of the broad scope of scientific and engineering activity at the Center, and its importance to the worldwide technical communities and disciplines to which we contribute. Technical information is both the *product* and the *service* provided by GSFC scientists and engineers. It has long been a priority that NASA's Scientific and Technical Information (STI) Program capitalize upon this resource by “provid(ing) for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof...” Our division fulfills these programmatic responsibilities by providing publication, graphics, photography, conference support, and printing services to GSFC's technical community.

We hope this publication will serve as a tool for collaboration and cooperation among our scientists and engineers, and as baseline information for future efforts of this kind. I welcome your comments and suggestions on this publication, and hope you will find it useful.



Mark E. Walther, Chief
Information Management Division



INTRODUCTION

The management of research and technology within our Directorates is diverse, but the publication element is consistent in one respect. By Agency and Center regulation, there must be technical management approval prior to external publication and presentation. At GSFC, this approval is provided via a single form, the *Request for Approval for Publication and Release* (GSFC 25-42).

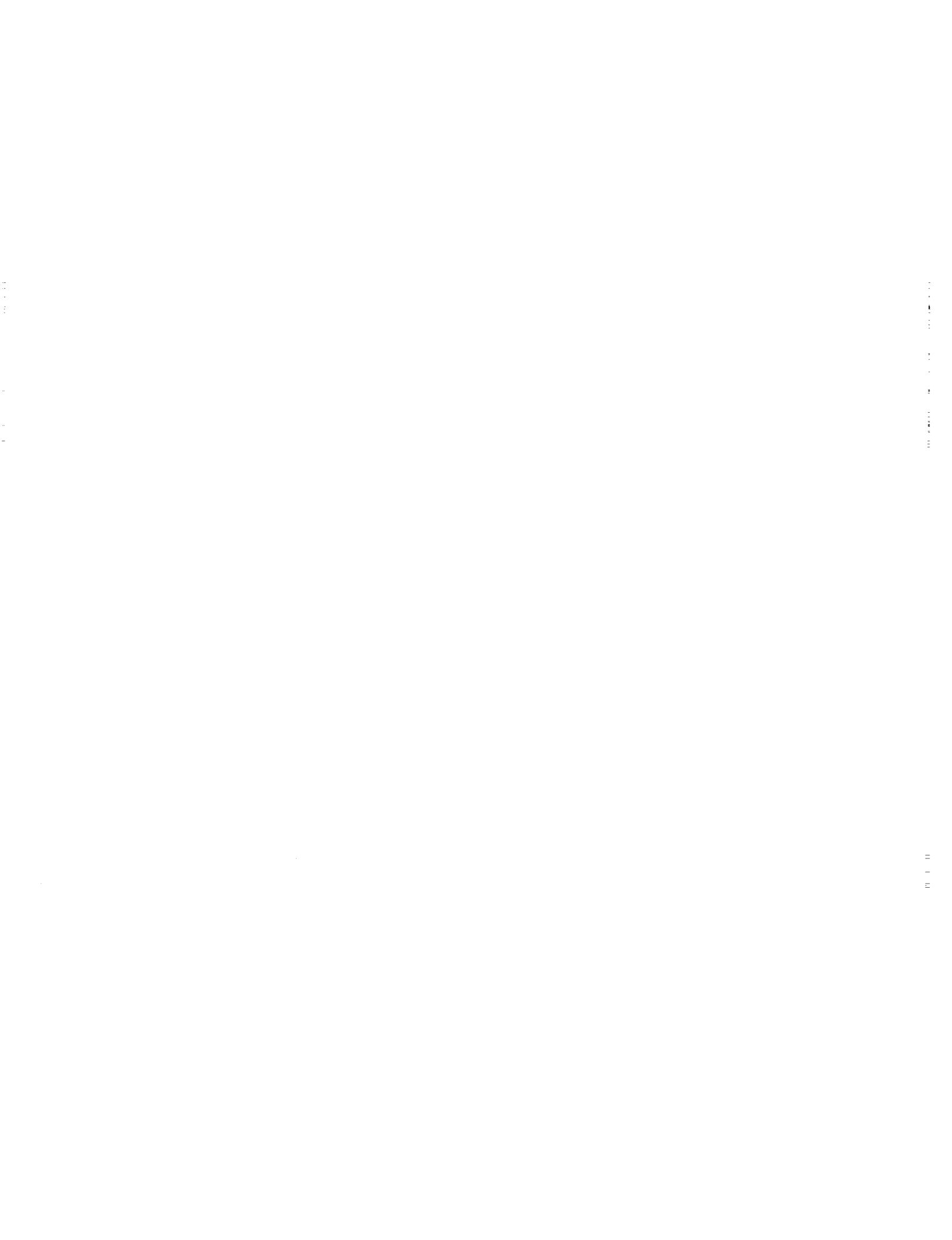
Use of the GSFC 25-42 is required for all technical information leaving the Center, including NASA formal reports, professional journal articles, other publications such as book chapters and other scholarly works, and technical presentations at conferences, symposia, and meetings. Our Division retains these forms after the sponsoring Directorate has granted its approval. The information contained in this Technical Memorandum is an assemblage of these 25-42 forms.

This is the second year we have sought to compile and publish this information, although we have received and retained GSFC 25-42 forms for many years. In response to a Headquarters request for STI statistics (sponsored by OMB), we have recently established database support to systematically capture GSFC 25-42 data. We will publish this information on an annual cycle.

One category of information captured is listed as "sponsor." This field is left blank if the publication is sponsored by NASA; if it is destined for release at an event or in a publication sponsored by an external organization, it is assigned a 6-digit sponsor code. A table of sponsor codes appears as an appendix.

The document type is indicated by a two-letter abbreviation in the third column. These abbreviations are: PR = presentation; JA = journal article (or proceedings paper); TM = NASA Technical Memorandum; RP = NASA Reference Publication; TP = NASA Technical Paper; CP = NASA Conference Publication (full proceedings); GD = general document; MW = miscellaneous work (e.g., book chapter, letter to the editor). Papers that were presented both orally and in a proceedings are listed once and have entries in both the "type" and "sponsor" columns.

**SCIENTIFIC AND TECHNICAL PUBLICATIONS
AND PRESENTATIONS:
FISCAL YEAR 1994**



<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
GSFC Summer Internships	KRIEGER	MW	NASA	120
Scientific and Technical Publishing at GSFC in FY92 and FY93	TECHNICAL INFORMATION SERVICES BRANCH	TM	NASA	253
How Much Rework is Too Much?	TODD;GARRISON;PARK	PR	IEPC	300
An Evaluation of the Radiation Tolerance of a 32-Bit Microprocessor for Space Applications	SHARMA;SAHU	PR	IEEE	311
Automated Inspection and Workmanship	SAVAGE	PR	NEPCON	312
Space Flight Printed Wiring Board Measling Investigation	THOMAS, III	TM	NASA	312
Iron Nickel - Cobalt Sealing Alloy Weight Loss in Dry Nitrogen	THOMAS, III;KUSTER	JA	IJMEP	312

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Outgassing Data for Selecting Spacecraft Materials	CAMPBELL, JR.,SCIALDONE	RP	NASA	313
Materials Processing Document	MATERIALS BRANCH	GD	NASA	313
Monitoring Molecular Contamination on Optics Utilizing a Temperature-controlled Quartz Crystal Microbalance (TQCM)	MITCHELL	PR;CP	SPIE	400
Using a Temperature-controlled Quartz Crystal Microbalance in a Space Equipment Clean Room to Monitor Molecular Contamination	MITCHELL	PR;CP	SSC	400
A Program Control Systems for an In-House NASA Project: Tropical Rainfall Measuring Mission	PENNINGTON;MAJEROWICZ	PR	PMA101	490
A New Systems Engineering Approach to Streamlined Science and Mission Operations for the Far Ultraviolet Spectroscopic Explorer (FUSE)	BUTLER;SONNEBORN;PERKINS	PR;CP	SP-OPS	504
An Operations Concept Development Methodology Using a Graphic Process Flow Technique	DENZLER;MACKEY	PR;CP	NCOSE	504

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A Systems Analysis to Improve the Organizational Processes Using a Total Quality (process) and a Viable System Model	GRANATA;ORAN;BEYER;MAYER; MACKEY;YOST;Van NOSTRAND; KARLIN;BAGG	CP;PR	NCOSE	504
Renaissance Architecture for Ground Data Systems	PERKINS;ZEIGENFUSS	PR;CP	SP-OPS	504
A Risk Management Program for a Task Order Contract	RAMCHANDANI;LIGON	PR;CP	NCOSE	504
Twenty-fifth Annual Precise Time and Time Interval Meeting (PTTI)	SYDNOR	CP	NASA	504
Use of Performance Evaluation Tools in System Engineering	VALLONE	PR;CP	NCOSE	504
The Role of Architecture and Evolutionary Development in Accommodating Change	ISAAC;McCONAUGHEY	PR;CP	NCOSE	505
Third NASA Goddard Conference on Mass Storage Systems and Technologies	KOBLER;HARIHARAN	CP	NASA	505

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Defining the Architectural Development of EOSDIS to Facilitate Extension to a Wider Data Information System	McCONAUGHEY;ELKINGTON; MEYER	PR;CP	ISPRS	505
1994 Goddard Conference on Space Applications of Artificial Intelligence	HOSTETTER	CP	NASA	510
Preparing for Space Operations for the 21st Century	ONDROUS	PR	NSIA	510.1
A Packet Switches Communications Systems for GRO	HUSAIN;WEN;VADLAMUDI; VALENTI	PR	NETTEC	514
Evaluating Space Network (SN) Scheduling Operations Concepts Through Statistical Analysis	KWADRAT;HAPPELL	PR;CP	SP-OPS	520
Autonomous Mission Planning and Scheduling-Innovative, Integrated, Responsive	SARY;LIU;HULL;DAVIS	PR;CP	SP-OPS	520
The Requirements Generation System: A Tool for Managing Mission Requirements	SHEPPARD	PR	SP-OPS	520

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Low-Cost Transportable Ground Station for Capture and Processing of Direct Broadcast EOS Satellite Data	DAVIS;BENNETT;SHORT, JR.	CP	SP-OPS	521.2
Lessons Learned Supporting On-board Solid-state Recorders	GREBOWSKY;SHI;MAO; CLOTWORTHY	PR;CP	SP-OPS	521.2
VLSI Technology for Smaller, Cheaper, Faster Return Link Systems	NANZETTA;SHUMAN;BENNETT; DOWLING;WELLING;SOLOMON	CP	SP-OPS	521.2
Spacecraft Data Simulator for the Test of Level Zero Processing System	SHI;GORDON;NGUYEN; MIRCHANDANI	PR;CP	SP-OPS	521.2
A Second Generation 50 Mbps VLSI Level Zero Processing System Prototype	SPECIALE;BENNETT;SHI;HARRIS	PR;CP	SP-OPS	521.2
Domain Engineering - A Parallel Process Model	BOOTH;BOWEN	PR	GMU	522
Usability Testing as a Tool for Technology Transfer	MOE;HAPPELL;MEEKS	PR	HYMAN	522

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Metrics in Software Process Assessment, Quality Assurance and Risk Assessment	ROSENBERG;SHEPPARD	PR;CP	ISSM	522
Software Process Assessment (SPA)	ROSENBERG;SHEPPARD;BUTLER	PR;CP	ISSMO	522
The Requirements Generation System (RGS)	SHEPPARD	PR	CSS	522
Enhancement of Block Transform Coded Images Using Residual Spectra Adaptive Postfiltering	LINARES	CP;JA	IEEE	530
Space Network Scheduling (SNS) Prototype	MESSING;REDDY;WHITE; STAUFFER;BERNARD	PR;CP	SP-OPS	530
Generating and Evaluating Alternate Schedules	REDDY	PR	NETTEC	530
Guest Editor's Note	RASH	JA	RCIM;T&I	531

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Multi-Components Discrete Propagation Model of Forest	SEKER	JA	IEE	531
GSFC Flight Dynamics Division Operational Navigation Support for the Ocean Topography Experiment (TOPEX)/Poseidon Mission	BOLVIN;BROWN;COX; SUMMERFIELD;OZA;DOLL	PR	SP-OPS	550
Production and Quality Assurance Automation in the Goddard Space Flight Center Flight Dynamics Facility	CHAPMAN;THOMAS;CUEVAS; BECKMAN	PR,CP	SP-OPS	550
Optimizing Sun Avoidance Maneuvers for Spinning Spacecraft	CHU;KEAT	PR,CP	SP-OPS	550
Improving Space Mission Operations with In-Flight Attitude Sensor Calibration	DAVIS;HASHMALL	PR	SP-OPS	550
Accuracy Assessment of TDRSS-Based TOPEX/Poseidon Orbit Determination	DOLL;OZA;COX;BOLVIN;SAMII	PR	COSPAR	550
Earth Observing System (EOS) AM Navigation and Control Using the TDRSS Onboard Navigation System (TONS)	FOLTA;HERBERG	PR	AAS-4	550

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Autonomous Navigation Using the TDRSS Onboard Navigation System (TONS)	GRAMLING;FOLTA;LONG	PR	COSPAR	550
TDRSS Onboard Navigation System (TONS) Flight Qualification Experiment	GRAMLING;FOLTA;LONG;HART	PR	FDDSYM	550
Creating a Self-Improving Operation	LEVITT, et al.	PR;CP	SP-OPS	550
A Proven Approach for More Effective Software Development and Maintenance	McGARRY;HALL;SINCLAIR	PR	SP-OPS	550
Software Engineering Workshop Review	McSHARRY	JA	IEEE	550
Magnetometer-Only Attitude and Rate Determination for a Gyroless Spacecraft	NATANSON;CHALLA;DEUTSCHMANN;BAKER	PR;CP	SP-OPS	550
Training and Simulation for Orbit Support of New Missions by the Goddard Space Flight Center Flight Dynamics Division	OZA;NICHOLSON;ROBERTS;LORAH;SCAGLIARINI;BURTON;SAMII;DOLL;CUEVAS;BECKMAN;MARR;VAUGHN	PR;CP	SP-OPS	550

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Landsat-4 Orbit Determination Using TDRSS	OZA;NIKLEWSKI;DOLL; MISTRETTA;HART	PR	COSPAR	550
Goddard Space Flight Center Flight Dynamics Division Ascent Support of Space Shuttle Rendezvous Missions	POWERS;HEPFER;CAPPELLARI; LYNCH;MARR;VAUGH	PR;CP	SP-OPS	550
Overview of TDRSS	SAMII;TELES;DOLL	PR	COSPAR	550
Integrated Mission Operations in the Goddard Space Flight Center Flight Dynamics Division	SCHEIDKER;HARMAN	PR;CP	SP-OPS	550
Controlling Inheritance: A Structured Style for Object-Oriented Programming	SEIDEWITZ	PR	OOPSLA	550
Genericity Versus Inheritance Reconsidered: Self-Reference Using Generics	SEIDEWITZ	CP;PR	OOPSLA	550
Orbit Determination Covariance Analysis for Mission Planning	YEE;OZA;MISTRETTA;BECKMAN; HART	PR	SP-OPS	550

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Understanding and Improving Software Maintenance Within the SEL Environment	VALETT	PR;CP	SMC	552
Deep Space Program Science Experiment Orbit Determination Support	BECKMAN;MINNIE;YEE	PR;CP	SD;AAS	553
Orbit Determination Support for the Deep Space Program Science Experiment	BECKMAN;MINNIE;YEE	PR;CP	AAS	553
Spacecraft Attitude Determination Accuracy from Mission Experience	BRASOVEANU;HASHMALL	PR;CP	FDDSYM	553
Maneuver Planning and Results for the Deep Space Program Science Experiment (DSPSE), Clementine	CARRICO;CARRINGTON;HAMETZ; PETERS;SCHIFF;RICHON; NEWMAN	PR	AAS;AIAA	553
Advantages of Estimating Rate Corrections During Dynamic Propagation of Spacecraft Rates—Applications to Real-time Attitude Determination of SAMPEX	CHALLA;BAKER	PR;CP	FDDSYM	553
Estimating Attitude Propagation Parameters	CHU;SEDLAK;WHEELER	PR;CP	FDDSYM	553

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Automated Manuever Planning Using a Fuzzy Logic Algorithm	CONWAY;SPERLING;FOLTA; RICHON;DeFAZIO	PR;CP	FDDSYM	553
Evaluation of Semiempirical Atmospheric Density Models for Orbit Determination Applications	COX;FEIERTAG;OZA;DOLL	PR;CP	FDDSYM	553
In-Flight Estimation of Gyro Noise on UARS and EUVE Missions	CROUSE;LEE;LEID;UNDERWOOD	PR;CP	FDDSYM	553
Extension of Attitude-Independent Algorithm for Sensor Alignment Calibration	DAVIS	PR;CP	FDDSYM	553
Expected Effects of Ephemeris Errors on TOMS-EP OBC Attitude Determination	DEUTSCHMANN;GALAL	PR;CP	FDDSYM	553
Improved Solution Accuracy for TDRSS-Based TOPEX/Poseidon Orbit Determination	DOLL;MISTRETTA;HART;OZA; COX;NEMESURE;BOLVIN;SAMII	PR;CP	FDDSYM	553
TOPEX/Poseidon Orbit Determination Using TDRSS	DOLL;OZA;BOLVIN;LORAH	PR;CP	SD	553

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Filter Parameter Tuning Analysis for Operational Orbit Determination Support	DUNHAM;COX;NIKLEWSKI; MISTRETTA;HART	PR;CP	FDDSYM	553
Application of Star Identification Using Pattern Matching to Space Ground Systems at GSFC	FINK;HASHMALL;SHOUP	PR;CP	FDDSYM	553
Star Catalog Preparation Using SKYMAP Red Magnitude Prediction Techniques	FINK;HEIMERL;LINDROSE; MILLER;SLATER	PR;CP	SD	553
Flight Mechanics/Estimation Theory Symposium (1994)	HARTMAN	CP	NASA	553
An Improved Transfer Function for the Fine Sun Sensor	HASHMALL;BAKER	PR	SFDYN	553
On-orbit Calibration of Magnetometer to Obtain Optimal Attitude Accuracy	HASHMALL;LIU;ROKNI;HARMAN	PR;CP	SD	553
Accurate Spacecraft Attitude from Magnetometer Data	HASHMALL;ROKNIK;HARMAN	PR;CP	SD	553

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Extended Abstract—Onboard Star Identification Without a Priori Attitude Knowledge Using Two CCD Star Trackers	KETCHUM	PR	AAS;AIAA	553
Attitude Determination of the Extreme Ultraviolet Explorer (EUVE) Using GPS	KETCHUM;HART	PR;CP	ION	553
Operational Support for Upper Atmosphere Research Satellite Attitude Sensors	LAMBERTSON;WOODRUFF;RAINA; LEE	PR;CP	FDDSYM	553
Color/Magnitude Calibration for NASA Standard Fixed-Head Star Trackers	LANDIS;LEID;GARBER;LEE	PR;CP	FDDSYM	553
High Earth Orbit Trajectory Design for Small Explorer Class Missions	MATHEWS;HAMETZ;COOLEY; SKILLMAN	PR;CP	FDDSYM	553
Magnetometer-Only Attitude Determination Without a Priori Knowledge of Spacecraft Attitude and Rates	NATANSON; CHALLA; DEUTSCHMANN; BAKER	PR;CP	FDDSYM	553
Assessment of Atmospheric Density Models for Orbit Determination	OZA;FEIERTAG;DOLL	PR	AAS;AIAA	553

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Improved Solution Accuracy for Landsat-4 (TDRSS-User) Orbit Determination	OZA;JONES;FEIERTAG;DOLL; MISTRETTA;HART	PR;CP	FDDSYM	553
Mission Design of the Clementine Space Experiment	RICHON;KAUFMAN	PR;CP	AAS;AIAA	553
Lunar Orbit Mission Design and Orbit Maneuver Computation for the Clementine Mission	ROBERTS;RICHON;NEWMAN	PR;CP	SD	553
Comparison of Kalman Filter and Kalman Smoother Estimates of Spacecraft	SEDLAK	PR;CP	FDDSYM	553
WIND Trajectory Design and Control	SHARER;FRANZ;FOLTA	PR;CP	SD	553
Operational Orbit Decay Prediction and Monitoring at the Goddard Space Flight Center Flight Dynamics Division	SMITH;COX	PR	AAS;AIAA	553
Steps Toward Determination of the Size and Structure of the Board-line Region In Active Galactic Nuclei Variability of the Ultraviolet Continuum and EMI		JA		600

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Infrared Observations of Comet Austin (1990v) by COBE/Diffuse Infrared Background Experiment	HAUSER	JA	APJL	600
Infrared Background (Observations)	HAUSER	CP	EBRS	600
Large-scale Characteristics of Interstellar Dust from COBE DIRBE Observations	HAUSER, et al.	JA	APJ	600
DIRBE Evidence for a Warp in the Interstellar Dust Layer and Stellar Disk of the Galaxy	HAUSER, et al.	JA	APJL	600
COBE DIRBE Near-Infrared Polarimetry of the Zodiacal Light: Initial Results	HAUSER, et al.	JA	APJL	600
Near- and Far-Infrared Observations of Interplanetary Dust Bands from the COBE Diffuse Infrared Background Experiment	HAUSER, et al.	JA	APJ	600
ASCA Observations of Active Galactic Nuclei	HOLT	PR	COSPAR	600

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
X-ray Microcalorimetry—A New Tool for X-ray Spectroscopy	HOLT	PR	ISSS	600
X-ray Spectroscopy of Active Galactic Nuclei	HOLT	PR	AIAOS	600
The NASA Program in Astroparticle Physics	ORMES	PR	STHOLM	600
A Broad-Band X-ray Telescope Observation of the Black Hole Candidate LMC-X-1	SCHLEGAL;MARSHALL; MUSHOTZKY;SMALE;WEAVER; SERLEMTSOS;JAHODA	JA		600
The Best of the Exosat Express Part I	WHITE	JA		600
The Best of Exosat Express Part 2	WHITE	JA		600
The Properties of X-ray Binaries	WHITE;PARMAR	JA		600

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
IAGG Working Group 2 (Data Exchange) Services for IAGG Campaigns	GREEN	PR	SOHe	630
The Inter-Agency Consultative Group	GREEN	PR	IACG	630
The IAGG Magnetotail Campaign (1st Campaign)	GREEN	PR	IACG	630
The IACG "Rules of the Road"	GREEN	PR	IACG	630
ISTP Central Data Handling Facility, NDADS and CDF	McGUIRE	PR	IACG	630
Analyzing the Skylab Solar X-ray Images in Digitized Form with Image Enhancement and Quasi-stereoscopic Techniques	BATCHELOR	PR	SOHe	632
X-ray Absorbing Structures in the Yohkoh Images of the Corona	BATCHELOR	PR	SOHO	632

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Make CDF: "Smart" Tool for Creation of CDF Datasets	BURLEY;McGUIRE;KESSEL	PR	GO&CL	632
Excitation of High Frequency Electromagnetic Waves by Energetic Electrons with a Loss-Cone Distribution in a Field-Aligned Potential Drop	FUNG;VINAS	JA	JGR	632
CDF Software Tools for Multi-instrument Data Analysis	KESSEL	PR	OBS/CLUS	632
Large Database Access and Usage in the Earth and Space Sciences Through Computer Networks	THIEMAN	PR	CODATA	633
Obtaining Earth Observations Data from U.S. and International Data and Information Systems	THIEMAN;OLSEN	PR	ISPRS	633.2
Unidentified EGRET Sources at High Latitudes	BERTSCH;FICHTEL;HARTMAN; HUNTER;THOMPSON;DINGUS; ESPOSITO;MUKHERJEE; SREEKUMAR;von MONTIGNY	PR;CP	AAS;BAAS	660
High-Energy Gamma Ray Sources Near the Galactic Plane for Longitudes $330^\circ < l < 60^\circ$	BERTSCH;FICHTEL;HARTMAN; HUNTER;THOMPSON;DINGUS; SREEKUMAR;MATTOX	PR	BAAS	660

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
High-Energy Gamma-Ray Emission from the Interstellar Clouds in Orion	DIGEL;BERTSCH;HUNTER; FICHTEL;HARTMAN;THOMPSON; DINGUS;ESPOSITO; SREEKUMAR;MATTOX	JA	AAS	660
High-Energy Gamma Rays from the Intense January 31, 1993, Gamma-Ray Burst	DINGUS;BERTSCH;FICHTEL; HARDING;HARTMAN;HUNTER; MATTOX;SREEKUMAR; THOMPSON	JA	APJ	660
A Drift Chamber Detector for a Gamma-Ray Telescope	DINGUS;ESPOSITO;MUKHERJEE; BERTSCH;CUDDAPAH;FICHTEL; HUNTER;HARTMAN;THOMPSON	PR;CP	APS	660
EGRET Observations of the South Galactic Latitudes $-10^\circ < b < -30^\circ$	DINGUS;ESPOSITO;SREEKUMAR; BERTSCH;FICHTEL;HARTMAN; HUNTER;THOMPSON;MATTOX	PR	AAS	660
EGRET Observations of Three Gamma-Ray Bursts at Energies > 30 MEV	DINGUS;SREEKUMAR;BERTSCH; FICHTEL;HARDING;HARTMAN; HUNTER;THOMPSON;MATTOX	PR	GRB	660
Supernova Remnants as Possible Candidates for EGRET Unidentified Sources in the Galactic Plane	ESPOSITO;DINGUS;MATTOX; MUKHERJEE;SREEKUMAR; BERTSCH;FICHTEL;HARTMAN; HUNTER;THOMPSON	PR;CP	AAS;BAAS	660
EGRET Observations of the Gamma-Ray Emission from Gould's Belt	ESPOSITO;DINGUS;SREEKUMAR; BERTSCH;FICHTEL;HARTMAN; HUNTER;THOMPSON;MATTOX	JA	AAS	660

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
High-Energy Gamma-Ray Astrophysics: Results from the Compton Observatory	FICHTEL	PR	CU;U CHI	660
Results from the Energetic Gamma-Ray Experiment Telescope on the Compton Gamma-Ray Observatory	FICHTEL	PR;CP	COS-94	660
Recent Results from the Energetic Gamma-Ray Experiment Telescope Onboard the Compton Satellite	FICHTEL	PR	GRC	660
The First Energetic Gamma-Ray Experiment Telescope (EGRET)/Catalog Source	FICHTEL;BERTSCH;DINGUS; ESPOSITO;HARTMAN;HUNTER; MATTOX;MCDONALD; SREEKUMAR	JA	APJ-S	660
Search for the Energetic Gamma Ray Experiment Telescope (EGRET) Data for High-Energy Gamma-Ray Microsecond Bursts	FICHTEL;BERTSH;HARTMAN; HUNTER;THOMPSON;DINGUS; ESPOSITO;SREEKUMAR;MATTOX	PR;CP	APS	660
Evolution of Gamma-Ray Loud Active Galactic Nuclei	FICHTEL;vonMONTIGNY;	JA	APJ	660
EGRET Observations of AGNs	HARTMAN	PR;JA	NATO-ASI	660

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
EGRET Observations of Active Galactic Nuclei	HARTMAN	PR;CP	GRS	660
Blazar Time Variations in High-Energy Gamma Rays	HARTMAN;BERTSCH;FICHTEL; HUNTER;THOMPSON;DINGUS; ESPOSITO;SREEKUMAR;MATTOX	PR	BAAS	660
EGRET Observations of the Galactic Diffuse Radiation	HUNTER;BERTSCH;FICHTEL; HARTMAN;THOMPSON;MATTOX; DINGUS;SREEKUMAR	PR;CP	APS	660
EGRET Observations of the Galactic Diffuse Radiation Within 10° of the Galactic Plane	HUNTER;HARTMAN;BERTSCH; FICHTEL;THOMPSON;DINGUS; ESPOSITO;SREEKUMAR;MATTOX	PR	BAAS	660
The BBXRT Observation of Cen X-3	KELLEY;AUDLEY	PR	TMU	660
The 1993 Multiwavelength Campaign on 3C279. 1. The Radio to Gamma-Ray Energy Distribution in Low State	MADEJSKI;HARTMAN	JA	APJL	660
High-Energy Gamma-Ray Sources Near the Galactic Plane at Longitudes $60^\circ < l < 125^\circ$	MATTOX;BERTSCH;FICHTEL; HARTMAN;HUNTER;THOMPSON; DINGUS;SREEKUMAR	PR	BAAS	660

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Simultaneous Observation of Quasar PKS 1406-076 with EGRET and Ground-based Optical in a Flare State	MATTOX;BERTSCH;von MONTIGNY;DINGUS;ESPOSITO; FICHTEL;HUNTER;HARTMAN; SREEKUMAR;THOMPSON	JA	APS	660
Development of Large Area Drift Chambers for High-Energy Gamma-Ray Astrophysics	MUKHERJEE;BERTSCH; CUDDAPAH;DINGUS;ESPOSITO; FICHTEL;HARTMAN;HUNTER; THOMPSON	PR;JA	SPIE	660
The Advanced Gamma-Ray Astronomy Telescope Experiment (AGATE): Space Instrumentation Beyond EGRET	MUKHERJEE;DINGUS;ESPOSITO; BERTSCH;CUDDAPAH;FICHTEL; HARTMAN;HUNTER;THOMPSON	JA	AAS	660
Development of Large Area Xenon Drift Chambers for High Energy Gamma-ray Astrophysics	MUKHERJEE;DINGUS;ESPOSITO; BERTSCH;CUDDAPAH;FICHTEL; HARTMAN;HUNTER;THOMPSON	PR	SPIE	660
Multi-Wavelength Intra-Peak Phase Separations in Pulsed Emissions from the Crab and the Vela Pulsars	RAMANAMURTHY	JA	A&A-L	660
Braking Index of Geminga Pulsar	RAMANAMURTHY;MATTOX	PR	BAAS	660
Abstract for Workshop on Evolution of Star Forming Regions	RAMATY	PR	ESTAR	660

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A Study of M31, M87, NGC253 and M82 in High-Energy Gamma Rays	SREEKUMAR;BERTSCH;DINGUS; ESPOSITO;FICHTEL;HARTMAN; HUNTER;MATTOX;THOMPSON	JA	APJ	660
Diffuse Gamma Rays of Extragalactic Origin	SREEKUMAR;DINGUS;ESPOSITO; BERTSCH;FICHTEL;HARTMAN; HUNTER;STECKER;THOMPSON; MATTOX	JA	AAS	660
Viewing the Violent Universe: The Gamma-Ray Sky Seen with EGRET	THOMPSON	PR	NRL	660
EGRET Observations of High-Energy Gamma Radiation from Young, Spin-Powered Pulsars	THOMPSON	CP;PR	APS	660
Gamma-Ray Bursts, Pulsars, and Quasars: Results from the Compton Gamma-Ray Observatory	THOMPSON	PR	UC-R	660
EGRET High-Energy Gamma-Ray Pulsar Studies, Part 1: Young Spin-Powered Pulsars	THOMPSON;BERTSCH;DINGUS; ESPOSITO;FICHTEL;HARTMAN; HUNTER;MATTOX;MONTIGNY; RAMANAMURTHY	JA	APJ	660
Contributions to the Second Compton Symposium	THOMPSON;BERTSCH;DINGUS; ESPOSITO;FICHTEL;HARTMAN; HUNTER;MATTOX;SREEKUMAR	PR	UM	660

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
EGRET High-Energy Gamma-Ray Pulsar Studies, Part I: Young Spin-Powered Pulsars	THOMPSON;BERTSCH;DINGUS; ESPOSITO;FICHTEL;HARTMAN; HUNTER;MATTOX;MONTIGNY; RAMANAMURTHY	JA	APJ	660
Are the Unidentified EGRET Sources Geminga-type Pulsars?	THOMPSON;BERTSCH;FICHTEL; HARTMAN;HUNTER;DINGUS; ESPOSITO;MUKHERJEE; SREEKUMAR;von MONTIGNY	PR;CP	AAS;BAAS	660
EGRET High-Energy Gamma-Ray Observations of the Vela-Carina Region	THOMPSON;BERTSCH;FICHTEL; HARTMAN;HUNTER;DINGUS; SREEKUMAR;MATTOX	PR	BAAS	660
High Energy Gamma-Ray Emission from Active Galaxies" EGRET Observations and Their Implications	vonMONTIGNY;BERTSCH;DINGUS; ESPOSITO;FICHTEL;HARTMAN; HUNTER;MATTOX;SREEKUMAR; THOMPSON	JA	APJ	660
BACODINE: The Real-Time BATSE Gamma-Ray Burst Coordinates Distribution Network	BARTHELMY;et. al.	PR;CP	GRB	661
Rapid Optical Follow-Up Observations of Three Recent Gamma-Ray Bursts	BARTHELMY;PALMER; SCHAEFER	PR;CP	GRB	661
Gamma Rays From Active Galactic Nuclei: GRO Surprises	GEHRELS	PR	COSPAR	661

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Use of vF Spectral Energy Distributions for Multiwavelength Astronomy	GEHRELS	JA	APJ	661
Hard X-ray and Gamma-ray Imaging with Solid State Detectors	GEHRELS	PR	HEA	661
The Compton Gamma-Ray Observatory: Mission Status	GEHRELS;CHIPMAN; KNIFFEN	PR;CP	2COMP	661
Isotopic Composition of Silicon and Iron in the Galactic Cosmic Radiation	HESSE;ACHARYA;HEINBACH; HEINRICH;HENKEL;LUZIETTI; SIMON;CHRISTIAN;ESPOSITO; BALASUBRAHMANYAN;BARBIER; ORMES;STREITMATTER	JA	APJ	661
Comptonization Models and Spectroscopy of X-ray and Gamma-Ray Sources	HUA;TITARCHUK	JA	APJ	661
The Search for Gamma-Ray Burst Special Features in the Compton GRO BATSE Data	PALMER; et. al.	PR;CP	GRB	661
BATSE Gamma-Ray Burst Line Search: I. Search for Narrow Lines in Spectroscopy Detector Data	PALMER;TEEGARDEN;SCHAEFER; CLINE, et. al.	JA	APJL	661

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Solar Particle Acceleration: Which Come From CME Shocks and Which Ones Come From Impulsive Flares?	REAMES	PR		661
Acceleration of Energetic Particles Which Accompany Coronal Mass Ejections	REAMES	PR	SOHO	661
Coronal Abundances Determined from Energetic Particles	REAMES	PR;CP	COSPAR; ASR	661
BATSE Spectroscopy Catalog of Bright Gamma-Ray Bursts	SCHAEFER	JA		661
Search for Gamma-Ray Burst Counterparts	SCHAEFER	PR	GRB	661
Distances to Gamma-Ray Bursts from their Soft X-Ray Spectra	SCHAEFER	CP	GRB	661
Repeating Galactic Bursters	SCHAEFER	JA	NNV	661

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
BATSE Cyclotron Line Search Protocol	SCHAEFER, et al.	PR	GRB	661
Cross Calibration of Burst Spectra with BATSE, EGRET, and COMPTEL for GRB910503	SCHAEFER;et al.	CP	GRB	661
Drift Chamber Detector Development for a Gamma-Ray Telescope	HUNTER	PR;CP	APS	662
Gamma Ray Observations of Ophiuchus with EGRET: The Diffuse Emission and Point Sources	HUNTER;DIGEL	JA	APJ	662
Gamma-Ray Burst Continuum Spectra from Magnetic Inverse Compton Scattering	BARING	PR	GRB	665
Anisotropic Thomson Upscattering in Active Galactic Nuclei	BARING	PR	2COMP	665
Gamma-ray Bursts	BARING	CP	AST/COS	665

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Cosmic Gamma-ray Bursts	BARING	CP	NATO	665
High-Energy Gamma Rays from Active Galaxies and the Origin of Relativistic Outflow	CONTOPOULOS;KAZANAS	PR	AFP	665
Polar Cap Models of Gamma-Ray Pulsars: Emission from Single Poles of Nearly Aligned Rotators	DAUGHERTY;HARDING	JA	APJ	665
A Possible First Measurement of the Intergalactic Infrared Radiation Field	DeJAGER;STECKER;SALAMON	JA	NATURE	665
General Relativistic Corrections in the Gamma-Ray Emission from Pulsars	GONTIER;HARDING	JA	APJ	665
High-Energy Pulsar Emission Models	HARDING	PR	APCA	665
Gamma-Ray Burst Models: Present Problems and Possible Solutions	HARDING	PR	2COMP	665

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Emission Processes in X-Ray Pulsars	HARDING	PR	X/BI	665
Gamma-Rays from Plerions	HARDING	PR	GRAST	665
Escape of High-Energy Photons from Relativistically Expanding Gamma-Ray Burst Sources	HARDING;BARING	PR	GRB	665
Relativistic, Parallel, and Quasi- parallel Shocks in Pair Plasmas Particle Acceleration	JONES;MACE	JA	APJ	665
X-Ray Diagnostics of COSMIC Photoionized Plasmas	KALLMAN	PR	X/BI	665
Winds from X-Ray Binaries	KALLMAN	PR	CW	665
Photoionization Equilibrium Modelling of Iron Line Emission	KALLMAN;KAHN;VRTILEK	PR	EL	665

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Conformal Weyl Gravity an Galactic Rotation Curves	KAZANAS;MANNHEIM	PR	MARCEL	665
Emission Lines from X-Ray Heated Accretion Disks in Low Mass X-Ray Binaries	KO;KALLMAN	JA;PR	APJ	665
Solar Particles and Processes	MANDZHAVVIDZE	PREPRN	23CRC	665
On Using the Weighted Slab Method in Studying the Problem of Cosmic-ray Transport	PIUSKIN;JONES	PR	ECR	665
Solar and Galactic Gamma-ray Lines	RAMATY	PR	NU	665
Gamma Ray and Millimeter Wave Emissions from the June 1991 X-Class Solar Flares	RAMATY;SCHWARTZ;ENOME; NAKAJIMA	JA	APJ	665
The Blazar Gamma-ray Luminosity Function and the Diffuse Extragalactic Gamma-ray Background	SALAMON;STECKER	JA	APJL	665

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A New Method for Determining the Hubble Constant from Sub-TeV-Gamma-Ray Observations	SALAMON;STECKER;DeJAGER	JA	APJ	665
A Photon-Less Pair Production Mechanism in Neutron Star Magnetospheres	SINA;HARDING	PR	APS	665
Astrophysical Sources of High Energy Neutrinos	STECKER	PR	AST/COS	665
Abstract: Neuririnos from AGNs	STECKER	PR	GRAST	665
Gamma-Ray Observations Constrain the Intergalactic Infrared Radiation Density	STECKER;DeJAGER	CP	GRSYMP	665
The Cosmic X-ray Background as A Measure of History	BOLDT	PR	UCSD;NPA	666
Abell 548: An X-ray and Optical Analysis of Substructure	DAVIS;BIRD;MUSHOTZKY;ODEWAHN	JA	APJ	666

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Observations of High-Energy Gamma-ray Bursts and Super Nova Remnants with EGRET	HUNTER	JA;PR	APS	666
Timing Performance of the XTE Proportional Counter Array	JOHODA	PR;CP	AAS;BAAS	666
Collection of Talk/Contributions	KELLEY;STAHL;SZYMKOWIAK	PR	AIAA-5	666
Recent Contributions on Microcalorimeter Research	KELLEY;STAHL;SZYMKOWIAK	PR	AIAA, ESA, LTD5	666
Implications for Gravitational Lensing and the Dark Matter Content in Clusters of Galaxies from Spatially Resolved X-ray Spectra	LOEWENSTEIN	JA	APJ	666
Discovery and Implications of Very Low Metal Abundances in NGC 1404 and NGC 4374	LOEWSENSTIN;MUSHOTZKY; TAMURA;IKEBE;MAKISHIMA; SERLEIMITSOS, et al.	JA	APJL	666
Non-standard Extinction by Circumnuclear Dust in the Seyfert Galaxy NGC 6814	MADEJSKI	JA	APJ	666

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Soft X-ray Spectrum of BL Lac Object AO 0235+164 as a Tracer of Elemental Abundances at $z \sim 0.5$	MADEJSKI	JA	APJ	666
Solving the Mystery of the Periodicity in NGC 6814	MADEJSKI;DONE;TURNER; MUSHOTZKY;SERLEMEMITSOS; FIORE;SIKORA	JA		666
Joint ROSAT - Compton GRO Observations of the X-ray Bright Seyfert Galaxy IC 4329A	MAKEJSKI;ZDZIARSKI;TURNER; MUSHOTZKY;HARTMAN; GEHRELS, et. al.	JA	APJ	666
The Cosmic X-ray Background - IRAS Galaxy Correlation and the Local X-ray Volume Emissivity	MIYAJI;LAHAV;JOHODA;BOLDT	JA	APJ	666
X-Ray Observations of Clusters of Galaxies	MUSHOTZKY	PR	APM;TMU	666
ASCA Observation of NGC 4636: Dark Matter and Metallicity Gradient	MUSHOTZKY;LOEWENSTEIN; AWAKI;MAKISHIMA; MATSUSHITA;MATSUMOTO	JA	APJL	666
ASCA Results	PETRE	PR	TMU	666

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A ROSAT Observation of the Transient X-ray Pulsar GRO J1008-57	PETRE;GEHRELS	JA	AA	666
Contributions to the ROSAT Science Symposium and Data Analysis Workshop	PETRE;LOEWENSTEIN;LEITER; BOLDT;MADEJSKI;RHO	PR	UM	666
ROSAT and ASCA Observations of NGC 1313 and SN1978k	PETRE;OKADA;MIHARA; MAKISHIMA;SCHLEGEL;COLBERT	PR	UMINN	666
Rapid X-ray Spectral Variability in NGC 3227	PTAK;YAQOOB;SERLEIMITSOS; MUSHOTZKY;OTANI	JA	APJL	666
Astrophysical Gamma-ray Lines from Accelerated Particle Interactions	RAMATY	PREPRN	GRS	666
Compton Scattering in Jets: A Mechanism for 0.4 and 0.2 meV Line Production	RAMATY	PR	MARCEL	666
An X-ray and Optical Study of the Supernova Remnant W 44	RHO;PETRE;SCHLEGEL;HESTER	JA	APJ	666

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
ASCA Results/Search for Low Luminosity of AGN in Nearby Galaxies	SERLEMITSOS	PR	TMU	666
Do Nearby Galaxies Harbor Low Luminosity AGN?	SERLEMITSOS	PR	IAU	666
The Complex X-ray Spectra of Two High Redshift Quasars Observed with ASCA	SERLEMITSOS;YAQOOB;RICKER; WOO;KUNIEDA;TERASHIMA; IWASAWA	JA	ANS-J	666
An X-ray Image of the LMC	SNOWDEN;PETRE	JA	APJL	666
X-ray Timing Explorer	SWANK;BRADT;ROTHSCHILD	PR		666
Complex Broad-Band X-ray Spectra of Seyfert Galaxies	WEAVER	PREPRN	UM	666
Calibrating BBXRT	WEAVER;ARNAUD;BOLDT; CHRISTIAN;CORCORAN;HOLT; JOHODA, et al.	JA	APJ	666

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
ASCA Observations of Quasars in the PV Phase	YAOQOOB;SERLEMITSOS	PR	X/AST	666
X-ray Spectrum and Variability of the Quasar PG1211+143	YAOQOOB;SERLEMITSOS; MUSHOTZKY;MADEJSKI;TURNER; KUNIEDA	JA	PASJ	666
The X-ray Emission of 3C 273 Observed with ASCA	YAOQOOB;SERLEMITSOS; MUSHOTZKY;RICKER;WOO; WEAVER;et al.	JA	ANS-J	666
Physical Process in the X-ray/ Gamma-Ray Source of IC 4329A	ZDZIARSKI;MADEJSKI	JA	MNRAS	666
The Proportional Counter Array Aboard the X-ray Timing Explorer	ZHANG;GILES;JAHODA;SWANK	PR	IAU	666
ASCA Observations of the Coronal X-ray Emission of Algol	ANTUNES;NAGASE;WHITE	JA	APJL	668
Temperature and Iron Abundance Variation of the Gas in the Perseus Cluster	ARNAUD;MUSHOTZKY;OHASHI; BAUTZ;CREWE;GENDREAU; YAMASHITA;KAMATA;AKIMOTO	JA	APJL	668

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Ultraviolet Observations of the Gamma-Ray Blazar 3C 279 Following the Gamma-Ray Flare of June 1991	BONNELL;VESTRAND;STACY	PR;CP	2COMP	668
Frequency-Dependent Energy Phase Lags in Gamma-Ray Bursts	CHIPMAN	CP;PR	GRB	668
ASCA Solid-State Imaging Spectrometer Observations of O Stars	CORCORAN;WALDRON;Mac FARLANE;CHEN;POLLOCK;TORRI; KITAMOTO;MIURA;EGOSHI;OHNO	JA	APJL	668
Pulse Width Distributions and Total Counts as Indicators of Cosmological Time Dilation in Gamma-Ray Bursts	DAVIS;NORRIS;KOUVELIOTOU; FISHMAN;MEEGAN;PACIESAS	PR;CP	GRB	668
ASCA X-ray Spectra of the Active Single Stars Beta Cert and PI(1) UMA	DRAKE;SINGH;WHITE;SIMON	JA	APJL	668
X-ray Energy Spectra From Accretion Disks in Black Hole Candidates	EBISAWA	PR	APC	668
ASCA Observations of Cooling Flows in Clusters of Galaxies	FABIAN;ARNAUD;BAUTZ;TAWARA	JA	APJL	668

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The X-ray Spectrum of the Highly-Polarized Quasar PKS 1502+106	GEORGE;NANDRA;TURNER; CELOTTI	PREPRN		668
An ASCA Observation of the Castor System	GOTTHELF;JALOTA;MUKAI; WHITE	JA	APJ	668
ASCA Observations of Cassiopeia A	HOLT;GOTTHELF;TSUNEMI; NEGORO	JA	APJL	668
Spectral Diagnostics and Accretion Disk Corona Reprocessing in X-Ray Binaries	KALLMAN	PR	APP	668
The Likelihood Analysis of EGRET Data	MATTOX, et al.	JA	APJ	668
On the Identification of EGRET Sources with Radio Sources	MATTOX;SCHACHTER;MOLNAR; HARTMAN;PATNAIK	JA	APJ	668
The ASCA PV Phase Observation of FO Aquarii	MUKAI;ISHIDA;OSBORNE	JA	ANS-J	668

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Soft X-ray and Ultraviolet Observations of Mrk 841: Implications for the Blue Bump	NANDRA;TURNER;GEORGE; FABIAN;SHRADER;SUE	JA	RAS	668
Complete Image Sets Near a Neutron Star or Black Hole	NEMIROFF	PR	LEIGE	668
Limits on Compact Dark Matter from Gravitational Lensing	NEMIROFF	PR	LIEGE	668
Magnification Bias in Galactic Microlensing Searches	NEMIROFF	JA	APJL	668
A Century of Gamma-Ray Burst Models	NEMIROFF	CP	GRB	668
Using the Digits of Irrational Numbers as Pseudo-Random Numbers	NEMIROFF;BONNELL	JA	AJOP	668
Gross Spectral Differences Between Bright and Dim Gamma-Ray Bursts	NEMIROFF;BONNELL;NORRIS; WICKRAMASINGHE; KOUVELIOTOU;FISHMAN; MEEGAN;PACIESAS	PR;CP	AAS	668

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
What is 2CG 010-31?	NEMIROFF;MARANI;CEBRAL; NORRIS	PR	2COMP	668
Time Asymmetry in Gamma-Ray Burst Light Curves	NEMIROFF;NORRIS; KOUVELIOTOU;FISHMAN; MEEGAN;PACIESAS	CP	GRB	668
Searching for Gravitational Lensing Echoes in Gamma-Ray Bursts	NEMIROFF;WICHRAMASINGHE; NORRIS;KOUVELIOTOU;FISHMAN; MEEGAN;PACIESAS;HORACK	PR;CP	LEIGE	668
Finite Source Sizes and the Information Content of Macho-Type Lens Search Light Curves	NEMIROFF;WICKRAMASIGHE	JA	APJL	668
Null Result in Gamma-Ray Burst Lensed Echo Search Implies Average BATSE Bursts Occur at Redshifts Less Than 6	NEMIROFF;WICKRAMASINGHE; NORRIS;KOUVELIOTOU;FISHMAN; MEEGAN;PACIESAS;HORACK	JA	APJ	668
Searching Gamma-Ray Bursts for Gravitational Lensing Echoes	NEMIROFF;WICKRAMASINGHE; NORRIS;KOUVELIOTOU;FISHMAN; MEEGAN;PACIESAS	CP	GRB	668
X-ray Color Analysis of the Spectra of Active Galactic Nuclei	NETZER;TURNER;GEORGE	JA	APJ	668

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Duration Distributions of Bright and Dim BATSE Gamma-ray Bursts	NORRIS;BONNELL;NEMIROFF; SCARGLE;KOUVELIOTOU; PACIESAS;MEEGAN;FISHMAN	JA	APJL	668
Cross-Calibration of Time Profiles and Spectra in Bright and Dim GRBs with Cosmological Models	NORRIS;NEMIROFF;BONNELL; SCARGLE;DAVIS;KOUVELIOTOU; FISHMAN;MEEGAN;PACIESAS; WICKRAMASINGHE	PR;CP	COS-94	668
Consistency of Time Dilation in Temporal Profiles and Spectra of Gamma-ray Bursts	NORRIS;NEMIROFF;BONNELL; SCARGLE;DAVIS;KOUVELIOTOU; PENDLETON;FISHMAN;MEEGAN; PACIESAS;WICKRAMASINGHE	PR;JA	COSPAR; ASR	668
Detection of Signature Consistent with Cosmological Time Dilation in Gamma-Ray Bursts	NORRIS;NEMIROFF;SCARGLE; KOUVELIOTOU;FISHMAN; MEEGAN;PACIESAS;BONNELL	JA	APJ	668
FITSO: A Subroutine Interface to FITS Format Files v. 3.4	PENCE	JA		668
Rosat Observations of Liners	REICHERT,MUSHOTZKY; FILIPPENKO	JA		668
The Design and Architecture of an Astrophysics Information System	RICHMOND;WHITE	JA	BAAS	668

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Design of an Intelligent FITS File Database	ROTS	PR;CP	ADASS353	668
A ROSAT Observation of the Nearby Spiral Galaxy NGC6946	SCHLEGAL	JA;PREPRN	APJ	668
The Very Luminous Supernova Remnant in NGC 6946	SCHLEGEL	JA	APJ-L	668
X-ray Emission from the Historical Supernovae in the Spiral Galaxy NGC 6946: SN1980K and SN1968D Recovered?	SCHLEGEL	JA	ANJ	668
Gamma-ray Emission from Cataclysmic Variables I: The Compton EGRET Survey	SCHLEGEL;BARRETT;DeJAGER;CHANMUGAM;HUNTER;MATTOX	JA	APJ	668
Multiwavelength Study of the X-ray Nova GRO J0422+32	SHRADER;WAGNER;STARRFIELD; HJELLMING;HAN	PR;CP	X/BI	668
A Study of Coronal X-ray Emission from Short-Period Algol Binaries	SINGH;DRAKE;WHITE	JA	APJ	668

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
On Spectra of X-ray Bursters: Expansion and Contraction Stages	TITARCHUK	JA	APJ	668
Generalized Comptonization Models and Application to the Recent High Energy Observations	TITARCHUK	JA	APJ	668
Comptonization Models and Spectroscopy of X-ray and Gamma-ray Sources	TITARCHUK;HUA	JA	APJL	668
Hard X-rays from NGC4151: A Thermal Origin?	TITARCHUK;MASICHIADIS	JA	APJL	668
The Type Ia Supernova 1989B in NGC 3627 (M66)	WELLS;PHILLIPS;SUNTZEFF; HEATHCOTE;HAMUY; NAVARRETE;FERNANDEZ; WELLER;SCHOMMER;KIRSHNER; LEIBUNDGUT;PELETIER;WILLNER	JA	ANJ	668
ASCA Observations of Stars	WHITE	PREPRN	X/AST	668
An ASCA Observation of One Orbital Cycle of AR Lac	WHITE;ARNAUD;DAY;EBISAWA; GOTTHELF;MUKAI;SOONG; YAOQOOB;ANTUNES	JA	PASJ;COS-94	668

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Observations of the Small Magellanic Cloud by the Vela 5B X-Ray Monitor	WHITLOCK;LOCHNER	JA	APJ	668
Quantitative Spectral Types for Algol Secondaries	YOON;HONEYCUTT;KAITCHUCK; SCHLEGEL	JA	ASTPAC	668
The Goddard Space Flight Center Astronomical Febry-Perot Imaging Camera (GAFPIC)	BROWN;WOODGATE;ZIEGLER; KENNY;OLIVERSEN	JA	AIOP	680
Coronal Streamers As Detected with the SPARTAN 201-01 White Light Coronagraph	FISHER;GUHATHAKURTA	PR	SOHO	680
The Hubble Space Servicing Mission	GULL	PR	SDSMT	680
In Search of Primeval Galaxies	HAUSER	PR	AAAS	680
The COBE DIRBE Search for the Cosmic Infrared Background	HAUSER	PR	IAU	680

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
UIT and Ground-based Imagery of a Field in the LMC Containing Associations LH 52 and LH 53 and the SNR N49	HILL;CHENG;BOHLIN;O'CONNELL; ROBERTS;SMITH;STECHER	JA	APJ	680
Ultraviolet and Optical Observations of OB Associations in M31	HILL;ISENSEE;BOHLIN;CHENG; HINTZEN;O'CONNELL;ROBERTS; A. SMITH;E. SMITH;STECHER	JA	APJ-S	680
Physics News in 1993—Astrophysics Chapter	MARAN	JA		680
Cosmology After COBE	MARAN	PR	AAAS	680
Heating and Ionization of Stellar Chromospheres by Nonthermal Proton Beams: Implications for Impulsive Phase, Redshifted Lyman-Radiation in Stellar Flares	MARAN	JA	APJ	680
Atomic and Molecular Gas in Interstellar Cirrus Clouds	REACH, et al.	JA	APJ	680
UIT: Ultraviolet Observations of the Small Magellanic Cloud	STECHER	JA	APJL	680

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Results from the Ultraviolet Imaging Telescope on the ASTRO-1 Mission and the Forthcoming ASTRO-2 Mission	STECHER	PR	IAU	680
Far Ultraviolet Photometry of the Globular Cluster w/CEN	STECHER	JA	APJ-S	680
Beyond the Blue: Greatest Hits of the Ultraviolet Imaging Telescope	STECHER	MW	ASTPAC	680
Ultraviolet Imaging Telescope and Optical Emission Line Observations of HII Regions in M81	STECHER, et. al.	JA	APJ	680
Correcting the Distortion of Images Taken with the Ultraviolet Image Telescope	STECHER, et. al.	JA	ASTPAC	680
The (Non-iterative) Partial Differential Equation Method: Application to Electron-Molecule Scattering	TEMKIN	BOOK		680
Autoionization	TEMKIN	JA	AIOP	680

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Collisional Excitation Theory and Modeling in Stellar Physics	BHATIA	PR	JPL	681
Polarizabilities, Long Range Forces and Rydberg States	BHATIA	PR	UTN	681
Linear Polarization of OVV Quasar 3C345 in the Ultraviolet Observed with the Hubble Space Telescope	BOYD;DOLAN;et. al.	PR;JA	AAS;BAAS	681
On the Decay of the Outbursts in Dwarf Novae and X-ray Novae	CANNIZZO	JA	APJ	681
GHRS Observations of Cool, Low Gravity Stars II. Flow and Turbulent Velocities in the Outer Atmosphere of δ Cru (M3.4 III).	CARPENTER, et al.	JA	APJ	681
Line Identifications in Goddard High Resolution Spectrograph Observations of Cool, High Luminosity Stars	CARPENTER;ROBINSON	PR	ASTPAC	681
GHRS Observations of the M-Giant μ GEM	CARPENTER;ROBINSON;JOHNSON; ENSMAN	PR;CP	AAS;BAAS	681

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Linear Polarization of OVV Quasar 3C345 in the Ultraviolet Observed with the Hubble Space Telescope	DOLAN;et al.	PR	PURDUE	681
UV Polarimetry of X-ray Binary Systems	DOLAN, et. al.	PR	IAU	681
Non-Periodic Variations in Astrophysical Systems: Investigating Frequency Evolution	DOLAN, et al.	JA	APJ	681
A Search for a Pulsar in the Remnant of SN1987A with the Hubble Space Telescope High-Speed Photometer	DOLAN, et al.	JA	NATURE	681
The Gravitational Lens System Q0957+561 in the Ultraviolet	DOLAN, et al.	JA	APJ	681
High-Speed Photometer Observations of Q2345+007 in the Ultraviolet: The Gravitational Lens in Interpretation	DOLAN, et al.	JA	ANJ	681
High-Speed Photometer Observations of the LMC Pulsar B0540-69	DOLAN, et al.	JA	APJ	681

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Astrophysical Positron Theory	DRACHMAN	PR;CP	NIM	681
Rydberg Levels of Lithium	DRACHMAN;BHATIA	PR;JA	FBPP;PR-A	681
Hubble Observations of R136a	HEAP	PR;CP	AAS;BAAS	681
GHRS Spectroscopy of Individual Stars in R136a	HEAP, et. al.	JA		681
Theoretical Modeling of GHRS Observations of the O-Type Star R136a5	HEAP, et. al.	JA		681
HST/SHRS Observations of Beta Pic	HEAP, et. al.	PR	IAP;CP	681
VLA Observations of Radio-Quasars in the Optical Imaging Samples of Yee	HINTZEN;ROBERTS	PR;CP	AAS;BAAS	681

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The High-State/Low-State Transition in V794 Aquilae	HONEYCUTT;CANNIZZO; ROBERTSON	JA	APJ	681
Modernizing the OSO-8 High-Energy X-Ray Data Set	KEMPER;DOLAN;DENNIS	PR;JA	AAS;BAAS	681
The Extinctions at the KT-Boundary: A New Explanation	O'KEEFE	JA	NATURE	681
X-Ray Emission from Active Semi-Detached Binary Stars	POLIDAN, et. al.	PR	IAU	681
Theoretical Properties of Horizontal-Branch Stars	SWEIGART	CP	UC	681
The Results of the High-Energy Imaging Device (HEIDI)	CRANNELL	PR	UC-B	682
Results from the First High-Energy Imaging Device (HEIDI) Balloon Payload	CRANNELL;DENNIS;GAITHER III; HARTMAN;ORWIG;LANG;STARR; SCHMAHL;GREENE;TAN; HURFORD;JOHNSON	PR	APS	682

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Solar Tomography	DAVILA	PR	TOMWKS	682
Propagation of Alfvén Waves in Coronal Holes	DAVILA;OFMAN	PR	SOHO	682
Results of the Fourth Flight of SERTS	DAVILA; THOMAS;THOMPSON	PR	HAOBCO	682
Time-Distance Helioseismology	DUVALL, JR.	PR	AGU	682
Travel-Time Helioseismology	DUVALL, JR.	PR	HAS	682
Time-Distance Helioseismology: An Update	DUVALL, JR.	PR;CP	GONG	682
A Method for Quantitatively Characterizing Rotating Modulation Collimators (RMC) for Use in X-ray Imagers	GAITHER III;HARTMAN; DENNIS;CRANNELL;ORWIG; SCHMAHL;HURFORD;LANG; STARR	PR	APS	682

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
An Approach to EIT/CDS Intercalibration	GURMAN	PR	CDSMTG	682
Joint Observations of the Chromosphere, Transition-Region, and Corona from SOHO and NSO/Kitt Peak	JONES	PR	SOHO	682
The NSO/NASA He I 1083.0 nm Video Filtergraph Magnetograph	JONES	PR	NSO	682
Filament Evolution and Activation in Active Region 6716	JONES;GAIZAUSKAS;DeLUCA;	PR	AGU	682
EUV Spectrum of Solar Active Region from SERTS	THOMAS;NEUPERT	PR	LAHRS	682
X-ray Planetary Nebulae	FEIBELMAN	JA	ASTPAC	684
Spectrum of IC 2149 and Central Star	FEIBELMAN;HYUNG;ALLER	JA		684

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Spectrum of the Planetary Nebula NGC 6572	FEIBELMAN;HYUNG; ALLER	JA	RAS	684
The Spectrum of the Planetary Nebula, IC 418	FEIBELMAN;HYUNG;ALLER	JA	ASTPAC	684
NIV Emission Lines in the Ultraviolet Spectra of Gaseous Nubulae	KEENAN;RAMSBOTTOM;BELL; BERRINGTON;HIBBERT; FEIBELMAN;BLAIR	JA	APJ	684
Space Exploration and Our Future	KONDO	PR	SPACE	684
Science of Star Trek	KONDO	PR	AAAS	684
Report to IAU Commission 42	KONDO	PR	IAU	684
The Ultraviolet Spectrum of the Gravitational Lens UM 425=QS01120+019: Evidence for Broad Absorption Line (BAL) Structure	MICHALITSIANOS	PR	IAU	684

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Ultraviolet Spectrum of the Gravitational Lens UM 425 = QS01120+019: Evidence for Broad Absorption Line (BAL) Structure	MICHALITSIANOS;OLIVERSEN	JA	APJL	684
The Cosmic Microwave Background (CMB)	BENNETT	PR	IWNT	685
Results from the HST First Servicing Mission	CHENG	PR	U CHI;NCGC	685
Morphology, Near-Infrared Luminosity and Mass of the Galactic Bulge from COBE DIRBE Observations	DWEK	PR	IAU	685
Observational Signatures of Grain Destruction and Processing in Shocks	DWEK;BORKOWSKI;FOSTER	PR	STSI	685
An Atlas of Mid-Infrared (5-20 micron) Astronomical Sources	GEZARI	PR	UCLA	685
The Trapezium/Ney-Allen Nebula: An Unambiguous Example of Circumstellar Dust Emission	GEZARI	CP	ROE	685

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Observational Concerns and Techniques for High Background Mid-Infrared (5-20 micron) Array Imaging	GEZARI	PR	IAU	685
High Background Mid-IR (5-20 Micron) Array Imaging: Concerns, Techniques and Requirements for Next-Generation Telescopes	GEZARI	PR	NSO	685
4.8-20 Micron Imaging of Orion BN/KL: II. A New Look at Luminosity Sources and the Roles of IRc2	GEZARI;BACKMAN	PR	UCLA	685
4.8-20 Micron Imaging of Orion BN/KL: Luminosity Sources and the Role of IRc2.	GEZARI;BACKMAN	PR	ROE	685
Mid-Infrared (4.8 - 12.4 and 20.0 μ m) Images of the Galactic Center: Modeling the Energetics and Morphology of the Central Parsec	GEZARI;DWEK;VAROSI	PR	MPI	685
Mid-Infrared Array Images of Solar Active Regions at 4.8, 12.4, and 18.1 Microns Coordinated with the SERTS Rocket Flight of 17 August 1993	GEZARI;LIVINGSTON;KOPP; VAROSI;DAVILA	PR	AAS	685
A New 20 μ m Upper Limit for Sgr A*	GEZARI;OZERNOY;VAROSI; McCREIGHT;JOYCE	PR	AAS;MPI	685

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
CMB Anisotropy from COBE ¹ -DMR Two-Year Sky Maps	HINSHAW;KOGUT;LOEWENSTEIN; KEEGSTRA;KAITA;JACKSON; BENNETT;MATHER;CHEN; BANDAY;GORSKI;WRIGHT; WILKERSON;WEISS;SMOOTH; LINEWEAVER;MEYER;LUBIN	PR	APS	685
Search for Unresolved Sources in the COBE ¹ -DMR Sky Maps	KOGUT;BANDAY	PR	APS	685
Time-lapse Images of Dynamic Mid-Infrared Thermal Features on the Quiet Sun	LIVINGSTON;GEZARI;KOPP; VAROSI	PR	AAS	685
Looking Back to the Beginning with the COBE Satellite	MATHER	PR		685
Latest Astrophysics from the COBE Satellite	MATHER	PR		685
COBE: How It Worked and What It Found	MATHER	PR	AAAS;GMU	685
Measurement and Implications of the Cosmic Microwave Background Spectrum	MATHER	PR	IAU;ISA	685

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Noise of a Bolometer with Vanishing Self-Heating	MATHER;BUHLER;UMLAUF	JA	NIM	685
Monolithic Si Bolometer Arrays - Detectors for Far-Infrared and Submillimeter Astrophysics	MOSELEY	PR	IAU	685
Natural Gas Contributions to [S II] Galactic Background Emission	PETUCHOWSKI;BENNETT	PR;JA	IAU;APJ	685
The Height of Ionized Gas in the Inner Galaxy	PETUCHOWSKI;BENNETT;HAAS; COLGAN;ERICKSON	JA	APJL	685
Searching for Anisotropy in the Cosmic Microwave Background Radiation with the Medium Scale Anisotropy Measurement and Top Hat Experiments	SILVERBERG;CHENG; COTTINGHAM;FIXSEN;INMAN; KOWITT;MEYER;RUHL;PAGE; PUCHALLA;PICCIRILLO; SCHAEFER;TIMBIE;SCHNOPPER	PR	IAU	685
Global Magnetospheric Convection and Low-Dimensional Dynamics	BAKER	PR	PU	690
Coordination of In-Situ with Remote Sensing Techniques for Studies of Middle Atmospheric Coupling	GOLDBERG	PR	ICTP	690

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Influence of Intense Highly-Relativistic Electron Precipitation Events on Mesospheric Heating	GOLDBERG;BAKER;HERRERO; JACKMAN	PR	SSTP	690
Magnetohydrodynamic Turbulence in the Solar Wind	GOLDSTEIN	PR	RADIO	690
From Interstellar Dust to Comets	MUMMA	PR	UNDAME	690
Methanol in Recent Comets: Evidence for Two Distinct Cometary Populations	MUMMA	PR	ISCHEM	690
From Interstellar Dust to Comets: Tests of Accretion Models	MUMMA	PR	ISCHEM	690
Formation and Metamorphism of Inorganic Grains in Astrophysical Environments Grain Formation	NUTH III	PR	NATO	690
Magnetically Enhanced Coagulation of Very Small Iron Grains: A Correction of the Enhancement Factor Due to Dipole-Dipole Interactions	NUTH III;WILKINSON	PR	ICARUS	690

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Neutral Oxygen Near Jupiter	OGILVIE;GLOECKLER;GEISS	JA	AA	690
Ionization Energy and Geometry of the Neutral Ground Electronic State of the NO ₃ Free Radical	STIEF;MONKS;KRAUSS;KUO; ZHANG;KLEMM	PR	ICPC	690
A Discharge Flow-Photoionization Mass Spectrometric Study of the FO Radical: Photoionization Efficiency Spectrum and Ionization Energy	ZHANG;KUO;KLEM;MONKS;STIEF	JA	JPCHEM	690
Trace-gas Measurements with an Infrared Sun Photometer	ALLEN;HALTHORE;GLENAR; MARKHAM	PR;CP	SPIE	691
Vibrational Relaxation in Methane	ALLEN, JR.;DeCOLA;HALTHORE	PR	ICPC	691
The Photodissociation of the NH ₂ Radical	CODY	PR	ICPC	691
The Photo-Oxidation of Gaseous BTEX	CODY;MORALEJO	PR	ICPC	691

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Kinetics and Products of the Reaction H+C ₂ H ₃	MONKS;SCANLON;NESBITT;STIEF; PAYNE	PR	GK	691
Metal Particle Morphology and Distribution in Meteorite Chondrules: Correlations with Magnetic Properties	NAVA	PR	CPD	691
The Reaction O(³ P) + HOBr: Temperature Dependence of the Rate Constant	NESBITT;MONK;PAYNE;STIEF	PR	PC	691
Puzzles, Paradigms; and Research on the Origins of Solar Systems	NUTH III	PR	ASGC	691
Evidence for the Stimulation of Field-Aligned Electron Density Irregularities on a Short Time Scale by Ionosphere Topside Sounders	BENSON	PR	URSI	692
The Terrestrial Ionosphere as an Astrophysical Plasma Laboratory	BENSON	PR	URSI	692
Simulations of Magnetospheric Radio Soundings	BENSON;RADIOWAVE STUDY TEAM	PR	RADIO	692

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Structure and Propagation of GMIRs	BURLAGA	PR	PVS	692
Merged Interaction Regions and Large-Scale Magnetic Field Fluctuations During 1991: Voyager 2	BURLAGA;NESS	JA	JGR	692
Pickup Protons and Pressure Balanced Structures: Voyager 2 Observations in MIR's Near 35AU	BURLAGA;NESS;BELCHER;SZABO	JA	JGR	692
The Electron Foreshock	FITZENREITER	PR	COSPAR	692
Low Dimensional Deterministic Modeling of Geomagnetic Activity	KLIMAS;BAKER;ROBERTS; VASSILIADIS	PR	FMI	692
Theoretical Analysis of Resonance Conditions in Magnetized Plasmas When the Plasma/Gyro Frequency Ratio is Closed to an Integer	OSHEROVICH;FAINBERG;BENSON; STONE	PR	URSI	692
Radio Observations of Spatial and Temporal Variations in the Mesospheric Winds of Venus	BUHL;GOLDSTEIN;CHIN	PR	AAS	693

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
On the Apparent Velocity of Integrated Sunlight II. 1983-1992, and Comparisons with Magnetograms	DEMING;PLYMATE	JA	APJ	693
Eclipses During 1995	ESPENAK	JA	RAS-C	693
Twelve-Year Planetary Ephemeris: 1995-2006	ESPENAK	RP	NASA	693
Solar Eclipse of 3 November 1994	ESPENAK;ANDERSON	RP	NASA	693
Total Solar Eclipse of 1995 October 24	ESPENAK;ANDERSON	RP	NASA	693
A Spectral Atlas of the v12 Fundamental of $^{13}\text{C}^{12}\text{CH}_6$ in the 12 μm Region	WEBER;REUTER;SIROTA; BLASS;HILLMAN	TM	NASA	693
Jovian H_3^+ Emissions: Remote Observation of the Magnetosphere	CONNERNEY;SATOH;BARON	PR	AUAS	695

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Planetary Radio Emission in the Outer Solar System	KAISER	PR	AUAS	695
Recent Results in Planetary Radio Astronomy	MacDOWALL	PR	EGS	695
What's New with Quasiperiodic Jovian Radio Bursts	MacDOWALL;DESCH;KAISER;FARRELL;HESS;STONE	PR	AUAS	695
The Three-dimensional Extent of a High-Velocity Solar Wind Stream	MacDowall, et al.	JA;PR	SSR;ESLAB	695
Quasiperiodic Jovian Radio Bursts: Observations From the Ulysses Radio and Plasma Experiment	MacDOWALL, et al.	PR	EGS	695
The Three-dimensional Extent of High Velocity Solar Wind Stream: Ulysses Observations	MacDOWALL, et al.	PR	EGS	695
Heliospheric Results From the Ulysses Unified Radio and Plasma Wave Experiment	MacDOWALL;STONE	PR	EGS	695

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Birth of Radiation Belt	STERN	GD	POST	695
Electrodynamic Parameters in the Nighttime Sector during Auroral Substorms and Comparison with Models	HOFFMAN;FIJII;ANDERSON; MAYNARD;SUGIURA	CP	ICS	696
Rocket Measurements of Plasma Instabilities in the Auroral Electrojet	PFAFF	PR	DC	696
Contamination Control Program for the Cosmic Background Explorer: An Overview	BARNEY	JA	SPIE	701.1
Jitter and Stability Calculation for the ASTER Instrument	NEECK;VENATOR;BOLEK	PR;CP	SPIE	704.3
An Electrostatic Gyroscope for Spacecraft Use	COHEN	PR;CP	AIAA	710
A Study of FM Mode-Locking Performance for Four Nd ³⁺ Doped Laser Crystals	DALLAS	JA	OPTSOC	710

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Accelerated GLAS Exposure Station (AGES)	DALLAS;STEPHEN	PR	OMHPL	710
Information Model for Spacecraft Ground Systems	KIZHNER;FRISCH	PR	SP-OPS	710
TDRSS-Light, A Space Communications Architecture	SEERY;MINOTT;FITZMAURICE; HAYDEN;BURK;KRAINAK	CP	SPIE	710
Hubble Space Telescope Camera Conceptual Design	SEERY;SMITH;BOLTON;KREBS; HANNAN;HEAP;SKILLMAN; NIEDNER	PR	SPIE	710
Hubble Space Telescope Advanced Camera Conceptual Design	SERRY;KREBS;SMITH;HEAP; BOLTON;HANNAN;SKILLMAN; NIEDNER;BROWN;CLAMPIN; LESSER	PR	SPIE	710
Infrared Reflectance of Nd Ce CuO Thin Films	STEWART;DREW;MAO	PR	APS	710
On the Stiffness of a Novel Six-DOF Parallel Minimaniupulator	TAHMASEBI;TSAI	PR	R&M	710

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
GADACS: A GPS Attitude Determination and Control Experiment on a Spartan Spacecraft	BAUER;LIGHTSEY;McCULLOUGH; O'DONNELL;SCHNURR	PR;CP	IFAC2	712
Pre-flight Testing of the Spartan GADACS Experiment	BAUER;LIGHTSEY;McCULLOUGH; O'DONNELL;SCHNURR;CLASS; JACKSON;LEITER	PR;JA	ION	712
An Electrostatic Gyroscope for Spacecraft Use	COHEN	JA		712
A Zero Gyro - Zero Wheel Controller for Hubble Space Telescope	FLATLEY;MARKLEY;MANGUS; BEDEWI;SANDHOO	PR;CP	AIAA	712
An Earth Albedo Model—A Mathematical Model for the Radiant Energy Input to an Orbiting Spacecraft Due to the Diffuse Reflectance of Solar Radiation from the Earth Below	FLATLEY;MOORE	TM		712
Star Catalog Development for CT-601 Star Trackers with Applications to EOS-AMI	KUDVA;THROCKMORTON	CP	AIAA	712
Attitude Determination Studies for EOS-AMI	KUDVA;THROCKMORTON	CP	AIAA	712

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Lower Bounds on the Gap Metric	KYLE;BEALE	PR	IFAC	712
Transient Performance and the Gap Metric	KYLE;BEALE	PR	IEEE	712
Attitude Determination and Control for Spacecraft Using Differential GPS	LIGHTSEY;COHEN;PARKINSON	PR	ESTEC	712
Development of a GPS Receiver for Reliable Real-Time Attitude Determination in Space	LIGHTSEY;COHEN;PARKINSON	JA;PR	NAV;ION	712
Generalization of the Euler Angles	MARKLEY;SHUSTER	JA	JOAS	712
Flight Hardware Implementation of a Feed Forward Vibration Control System for Space Flight Cryocoolers	BOYLE;SPARR;JAMES;BANKS;GRUNER;WILMOT;GIBBONEY	PR	CRYOC	713
Low Gravity Superfluid Transfer Can Be Done: The Results of the SHOOT Flight Demonstration	DiPIRRO;SHIRRON;TUTTLE	PR	SPOIEC	713

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Transfer of Superfluid Helium in Space	DiPIRRO;SHIRRON;TUTTLE	PR;CP	CEC	713
Development of High-Resolution Penetration Depth Thermometer	SHIRRON;DiPIRRO;TUTTLE	PR;CP	IEEE	713
Adaptation of Tactical Cryocoolers for Short Duration Spaceflight Missions	SPARR;BOYLE;BANKS;JAMES	PR;CP	CRYOC	713
Flight Hardware Implementation of a Feed Forward Vibration Control System for Spaceflight Cryocoolers	SPARR;BOYLE;BANKS;JAMES	PR;CP	CRYOC	713
Adaptation of Tactical Cryocoolers for Short Duration Spaceflight Mission	SPARR;SARTOR;BOYLE;BANKS; JAMES	PR	CRYOC	713
NASA/GSFC Cryocooler Test Program Results for FY93/94	SPARR;SARTOR;BOYLE;CORY; ARILLO;BANKS;JAMES;CASTLES	PR;CP	CRYOC	713
On Capaciflector Sensor System Response Function	KIZHNER	PR;CP	ISRAM	714.1

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Prelaunch Optical Characterization of the Laser Geodynamic Satellite (LAGEOS 2)	MINOT;ZAGWODZKI	TP	NASA	715
1047 nm Master Oscillator Power Amplifier Free Space Optical Communications Laser Transmitter	KRAINAK;YU	JA	IEEE	715.2
A Passive Aerodynamically Stabilized Satellite to Low Earth Orbit	PACINI;SKILLMAN	PR;CP	AAS	715.2
Ion Beam Deposited Boron Carbide Coatings for the EUV	BLUMENSTOCK;KESKI-KUHA	JA	AO	717
Hartman Wavefront Sensing of the Corrective Optics for the Hubble Space Telescope	DAVILA;EICHHORN;WILSON	PR	SPIE	717
Qualification of CO2 Jet Spray Cleaning for Use on Magnesium Fluoride Protected Aluminum UV Coatings for the Corrective Optics Space Telescope Axial Replacement (COSTAR)	HAGOPIAN;LEVITON;WRIGHT; FLEETWOOD;KESKI-KUHA; BOWERS	PR;CP	SPIE	717
Cryogenic and Ambient Testing of the CIRS Beryllium Telescopes	HAYES;CROOKE;PERKINS	PR;CP	SPIE	717

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Performance Comparison of Two Wolter Type II Telescopes in the Far Ultraviolet	LEVITON;WRIGHT;THOMAS; DAVILA;EPSTEIN	JA	AO	717
Development and Testing of the CIRS Retroflectors	LYONS;HAYES;JENNINGS	PR;CP	SPIE	717
Technology for the Hubble Space Repair Mission	OSANTOWSKI	PR	OPTSOC	717
A New High Speed IR Camera System	TRAVIS; et al.	PR;CP	TECH2003	718
A Solution for Isolating Pyroshock for SAC-B	CASE;CAMPENNI;KAUFMAN; ROGGERO	PR	SSMT	720
Maintenance and Refurbishment Thermal Analysis Program (MARTAP)	AHMED;WIGGINS	PR;CP	S&ECS	724
A Breadboard Flight Experiment for Two-Phase Flow Visualization in Microgravity	BENNER;DURBACK;KOLOS; BAYT	PR;CP	AIAA	724

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Flight and Ground Test Data Analysis for the Heat Pipe Performance (HPP) Experiment	BUCHKO;BRENNAN;NGUYEN	CP	ES	724
Rankine Cycle Heat Pumps with Capillary Based Evaporators	DIDION;SWANSON;SHIDHAR; GOTTMANN;LYLE	PR	SSNPP	724
Protective Bag Design for the Hubble Space Telescope Servicing Mission Carriers	HEDGELAND;GREENBERG;GEER; HAMMERBACHER;BAILEY; DiBARTOLO;GABBERT	PR;CP	SPIE	724
An Integrated Approach for Contamination Control and Verification for the Hubble Space Telescope First Servicing Mission	HEDGELAND;HANSEN;HUGHES	PR;CP	SPIE	724
Results of STS-51 Orbiter Crew Compartment Contamination Generation and EVA Paload Bay Transfer Experiment	HEDGELAND;HANSEN;MAAG; SEAMAN	PR;CP	SPIE	724
Clean Assembly and Integration Techniques for the Hubble Space Telescope High Fidelity Mechanical Simulator	HEDGELAND;HUGHES	PR	SSC	724
Verification of Molecular Contaminant and Atomic Oxygen Modeling for the EVEEP Experiment	LORENTSON;CHEN;OTTENSTEIN; RODRIGUEZ	PR;CP	SPIE	724

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Thermal Vacuum Testing of the Capillary Pumped Loop Flight Experiment	OTTENSTEIN;KU;BUTLER	CP	ES	724
Thermal Design of Space Support Equipment for the Hubble Space Telescope Servicing Mission	OUSLEY, JR.	PR;CP	ES	724
Hubble Space Telescope Extravehicular Activity Tool and Crew Aid Design	RHEE;NEUMAN	PR	AIAA	724
Evaluation of a Reverse Brayton Cycle Heat Pump for Lunar Base Cooling	SRIDHAR;NANJUNDAN; GOTTMANN;SWANSON;DIDION	CP	ES	724
LDEF Post - Flight Data As It Influences TRMM	STRAKA	CP;PR	LDEF	724
Post-Launch Application of EP MAPS Thermal Models for Improved On-orbit Performance	WASSON;DUCAS;OUSLEY	PR	ES	724
Hubble Space Telescope Servicing Mission Scientific Instrument Protective Enclosure Design Requirements and Contamination Control	HANSEN;HUGHES;HEDGELAND; CHIVAATERO;STUDER;KOSTOS	PR;CP	SSC	724.4

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Hubble Space Telescope Servicing Mission Scientific Instrument Protective Enclosure Design Requirements and Contamination Control	HANSEN;HUGHES;HEDGELAND; CHIVATERO;STUDER;KOSTOS	JA	IES;AIAA; CSA	724.4
Protective Bag Design for the Hubble Space Telescope Servicing Mission Carriers	HEDGELAND;GREENBERG;GEER; HAMMERBACHER;BAILEY; DiBARTOLO;GABBERT	PR;CP	SPIE	724.4
An Integrated Approach for Contamination Control and Verification for the Hubble Space Telescope First Servicing Mission	HEDGELAND;HANSEN	PR;CP	SPIE	724.4
Results of STS-51 Orbiter Crew Compartment Contamination Generation and EVA Payload Bay Transfer Experiment	HEDGELAND;HANSEN;MAAG; SEAMAN	PR;CP	SPIE	724.4
Clean Assembly and Integration Techniques for the Hubble Space Telescope High Fidelity Mechanical Simulator	HEDGELAND;HUGHES	PR;CP	SSC	724.4
Maintaining a Class 10,000 Environment in a Class 100,000 Cleanroom	HUGHES;HEDGELAND;GEER; GREENBERG	PR;CP	SPIE	724.4
Thermodynamic Aspects of Capillary Pumped Loop Operation	KU	CP;PR	AIAA/TH	724.4

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
NASA Handbook for Nickel-Hydrogen Batteries	DUNLOP;YI;RAO	RP	NASA	730
Handbook for Handling and Storage of Nickel-Cadmium Batteries: Lessons Learned	FORD;RAO;YI	RP	NASA	730
Design and Use of a CCSDS Compatible Data Unit Decoder	RAMIREZ;O'DONNEL	PR	ITC	733
Results from the Goddard Space Flight Center's Solar Array Materials Passive Long Duration Exposure Facility Experiment	GADDY	PR;CP	PEC	734
Solar Array Requirements and Technology Trends for GSFC Spacecraft	GADDY;DAY	PR;CP	SPRT	734
The FAST Solar Array: Challenging Requirements - Novel Design	KRUER;LYONS	PR	IEEE	734
Construction of Temperature Compensated Constant Voltage (VT) Curves for Super NiCd TM Cells	RAO;BAER;PICKETT;PEARCE	CP	ABWK	734

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
NiCd Battery Operations on Orbit: Trials, Tribulations, and Successes on Upper Atmosphere Research Satellite	RAO;MILLER	CP	ABWK	734
Nickel Cadmium Battery Operations and Performance	RAO;PRETTYMAN-LUKOSCHEK; CALVIN;BERRY;BOTE;TOFT	PR	ISSMO	734
Reaction During Reversal of NiH ₂ Cell	RAO;VAIDYANATHAN	JA	JOPS	734
The Development of NASA Goddard's Essential Services Node (ESN), a Multi-purpose Module for Interfacing to a Spacecraft Bus	CAFFREY;ALKIRE;MILLER	PR;CP	RFC	735
"Special" Commands for a Single Fault Tolerant Spacecraft	JOHNSON	JA	FTCOM	735
Single Event Effect Ground Test Results for a Fiber-Optic Data Interconnect and Associated Electronics	LaBEL;HAWKINS;COOLEY; SEIDLECK;MARSHALL;DALE;KIM; STASSINOPoulos	PR;CP	IEEE	735
Single Event Effect Proton and Heavy Ion Test Results for Candidate Spacecraft Electronics	LaBEL;MORAN;HAWKINS;COOLEY; SEIDLECK;GATES;KIM;SMITH; STASSINOPoulos;MARSHALL; DALE	PR;CP	IEEE	735

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Single Events Effects on Associated Electronics for Fiber-Optic Systems	LaBEL;MARSHALL;DALE; STASSINOPoulos;JOHNSTON; CRABTREE;KIM	PR;CP	SPIE	735.4
Microstrip Cylindrical Array for Space Applications	HERSEY	PR	MHCCAJ	737
SEU Hardening of FPGAs for Space Applications and Device Characterization	KATZ;BARTO;McKERRACHER; SHARMA;KINNISON;CARKHUFF; SAHU;KARYGIANNIS;LANDER; KIM;LABEL;CRABTREE	PR;JA	SEES;IEEE	738
End-to-End Communication Test on Variable Length Packet Structures Utilizing AOS Test Bed	MILLER;SANK;FONG;MIKO; POWERS;FOLK;CONAWAY; MICHAEL;YEH	PR;CP	SP-OPS	738
Comment on "Gravity as a Zero-Point-Fluctuation Force"	SPANIOL;SUTTON	JA	PR-A	738
Triplet Solution of the Twin Paradox	SPANIOL;SUTTON	PR	ICSTG	738
A VLSI Chip Solution for Lossless Medical Imagery Compression	VENBRUX;ZWIEGLE;VESEL;YEH	PR;CP	SPIE	738

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Application Guide for Universal Source Encoder	YEH;MILLER	TP	NASA	738
The Development of Lossless Data Compression Technology for Remote Sensing Applications	YEH;MILLER	PR;CP	IGARSS	738
The First 100 GAS Payloads	PHILLIPS, et al.	GD	NASA	740
The NASA Get Away Special Program	THOMAS	PR	ISDC	740
Controller for the Electronically-Scanned Thinned Array Radiometer (ESTAR) Instrument	ZOMBERG;CHREN,JR.	TM	NASA	740
Spartan Capabilities Statement	THOMAS	SP	NASA	740.1
An Argument for the Inclusion of Pressure Gauges in the NASA Vessel and System Recertification Program	HARGROVE	PR	DODSYS	750

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Creative Inventive Design and Research	KERLEY	TM	NASA	750
Optimizing Ferrite Tile Installation for Anechoic Upgrades	DYER	PR	ISEEC	754
Development of a Reusable Parachute Test System	SILBERT;SHREVES;SCOTT	PR	AIAA	841
The NASA Balloon Program: Conventional and Long Duration	NEEDLEMAN	PR;CP	COSPAR	842
Thin Film Discriminator Criteria for Polyethylene Scientific Balloons	SAID;THOMAS	PR;JA	SPE	842
Thickness Independence of the Low Temperature Fracture Toughness of Linear Low Density Polyethylene Blown Film	SAID;THOMAS;TIELKING	PR;JA	SPE	842
A Comparative J-Integral Fracture Toughness Study of Various Thin Polyethylene Blown Lines	SAID;THOMAS;TIELKING	JA	JEMT	842

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Advancements in NASA Balloon Research and Development	SMITH, JR.	PR;CP	COSPAR	842
Space Radiation Exposure of the GAMES Mission	BARTH;STASSINOPoulos	XDOC	NASA	900
FUSE 3-D Ray Trace Radiation Analysis Phase B, Baseline Model	BARTH;STASSINOPoulos;GEE	XDOC	NASA	900
Science Data and Information Systems for Small MTPE Satellites	KIANG	PR;CP	CH-AM	900
Satellite Instrumentation and Imagery	KING;HOBISH	JA	EOCW	900
MODIS Airborne Simulator: Status, Calibration, and Earth Remote Sensing Applications	KING;PLATNICK;GUMLEY;TSAY; ARNOLD	PR	ARSC	900
In-Situ Observations of the Indirect Effects of Aerosol on Clouds	KING;TSAY;PLATNICK	PR;CP	AFWK	900

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Earth Observing System (EOS) Moderate Resolution Imaging Spectroradiometer (MODIS): Early 1994 Development Status Report	SALOMONSON;BARNES;WEBER	PR	AIAA	900
The Contributions of Spaceborne Observing Systems to the Understanding of the Solid Earth and Land Surface Processes: An Overview	SALOMONSON;WALTER	CP	GWU	900
Seminar and Lectures to be given at SUNY, Stony Brook, New York	SIMPSON	PR	SUNY	900
The Tropical Rainfall Measuring Mission (TRMM): An Overview	SIMPSON	PR	FSU	900
Cumulus Mergers in the Maritime Continent Region	SIMPSON	PR	UCAR	900
CRRES Microelectronics Package Flight Data Analysis	STASSINPOULOS;BRUCKER; STAUFFER	TP;XDOC	NASA	900
Analysis of Single and Multiple Upsets in Memories on the CRRES Microelectronics Package (MEP)	STASSINPOULOS;BRUCKER; STAUFFER	XDOC	IEEE	900

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Natural Hazards Assessment and Mitigation from Space: The Potential of Remote Sensing to Meet Operational Requirements	WALTER	PR	NHAM	900
Analyses of Long-term Solar Irradiance Data With Wavelet Transforms	KIANG;KYLE;TELFER	PR;CP	SPIE	902
Nimbus-7 Earth Radiation Budget Compact Solar Data Set User's Guide	KYLE;PENN;HOYT;LOVE;VEMURY; RP VALLETTE	RP	NASA	902
The Potential of AVHRR GAC Data for Global Change Studies: An Evaluation of the NASA GAC Pathfinder Data Set	BELWARD;HOLLIFIELD;JAMES	JA	IJRS	902.3
The Effects of Clouds on Global and Regional OLR and Net Radiation	DHURIA;KLYE;WEISS	PR	AGU;EOS	902.3
Nimbus-7 Earth Radiation Budget Calibration History—Part I: The Solar Channels	KYLE;HOYT;HICKEY; MASCHHOFF;VALLETTE	RP	NASA	902.3
In-Flight Calibration of the Nimbus-7 Earth Radiation Budget (ERB) Sensors Part II: Short-term Perturbations	KYLE;HUCEK;ARDANUY; HICKEY;MASCHHOFF;PENN; GROVEMAN	JA	JAOT	902.3

<u>Title</u>	<u>Author</u>	<u>Doc.</u> <u>Type</u>	<u>Sponsor</u>	<u>NASA</u> <u>Code</u>
Nimbus-7 Earth Radiation Budget Calibration History—Part II: The Earth Flux Channels	KYLE;HUCEK;ARDANUY;HICKEY; MASCHHOFF;PENN;GROVEMAN; VALLETTE	RP	NASA	902.3
In-Flight Calibration of the Nimbus-7 Earth Radiation Budget (ERB) Sensors Part I: A Thermal Model for the Shortwave Channels	KYLE;HUCEK;ARDANUY;PENN; HICKEY;GROVEMAN	JA	JAOT	902.3
Compact Nimbus-7 ERB Solar Raw Data Archive	KYLE;PENN;HOYT	PR	AGU; EOS	902.3
Nimbus-7 Earth Radiation Budget Compact Solar Dataset User's Guide	KYLE;PENN;HOYT;LOVE; VEMURY;VALLETTE	RP	NASA	902.3
Cloud, Surface Temperature, OLR and Climate Variability for the Period 1979 to 1990	WEISS;ARDANUY;KYLE	PR	AGU;EOS	902.3
NASA ER-s Doppler Radar Reflectivity Calibration for the CAMEX Project	CAYLOR;HEYMSFIELD;BIDWELL; AMEEN	TM	NASA	910
East Asian Monsoon Variability and Climate Teleconnection	LAU	PR	ICTP	910

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The South China Sea Monsoon Experiment (SCSMEX): Scientific Rationale	LAU	PR	WPGM;HKU; UOS	910
Atmospheric Water Vapor Measurements Using a Raman Lidar: The GEWEX Water Vapor Project (GVaP) Reference Station	Melfi	PR	AMS	910
Regional Rainfall Climatologies Derived from Special Sensor Microwave Imager (SSM/I) Data	NEGRI;ADLER;NELKIN;HUFFMAN	JA	BAMS	910
Development of a Holographic Telescope for Optical Remote Sensing	SCHWEMMER;WILKERSON	PR	SPIE	910
A New Approach to the Photon Localization Problem	HAN;KIM;NOZ	CP	UMBC	910.1
Wavelets and Photons	HAN;KIM;NOZ	JA	JOP-A	910.1
Third International Workshop on Squeezed States and Uncertainty Relations	HAN;KIM;RUBIN;SHIH;ZACHERY	CP	NASA	910.1

<u>Title</u>	<u>Author</u>	<u>Doc.</u> <u>Type</u>	<u>Sponsor</u>	<u>NASA</u> <u>Code</u>
TOGA-COARE Ocean Precipitation Morphology	THIELE;SHORT;GERLACH;WOLFF; WILKERSON	PR;CP	AMS	910.1
West Pacific Ocean Rainfall Measurements	THIELE;SHORT;KUCERA;FERRIER; WOLFF;GERLACH	PR	GEWEX	910.1
Case Studies of Convective vs. Stratiform Rain Over Kapingamarangi Atoll During TOGA-COARE	TOKAY;SHORT	PR	AMS	910.1
Convective vs. Stratiform Rain During TOGA COARE: Evidence from Raindrop Spectra	TOKAY;SHORT	PR	AGU	910.1
Numerical Integration of the Primitive Equations Based on the Semi-Lagrangian Advection of Potential Vorticity	BATES	PR	LCSYM	910.3
Semi-Lagrangian Global Atmospheric Model Development at NASA/GLA	BATES	PR	MRWF	910.3
Global Modelling Using Semi-Lagrangian Finite Difference Numerical Schemes	BATES	PR	GEWEX	910.3

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Simulation of Stratospheric Vortex Erosion Using Three Different Global Shallow Water Numerical Models	BATES;LI	PR	ARM	910.3
A Global Barotropic Primitive Equation Model Based on the Semi-Lagrangian Advection of Potential Vorticity	BATES;LI;BRANDT;McCORMICK; RUGE	JA	QJRMS	910.3
Approximate Covariance Evolution	COHN	PR	AADM	910.3
An Overview of Estimation Theory	COHN	PR	AADM	910.3
Stochastic Problems in Atmospheric Data Assimilation	COHN	PR	DAW	910.3
A Fixed-Lag Kalman Smoother for Retrospective Data Assimilation	COHN;SIVAKUMARAN;TODLING	JA	MWR	910.3
Stochastic Properties of Large-Scale Nonlinear Interactions Determined from a Two-layer Model	DELSOLE	JA	JAS	910.3

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Climatology of the Simulated Great Plains Low-Level Jet and Its Contribution to the Continental Moisture Budget of the United States	HELPAND;SCHUBERT	JA	JOC	910.3
Dependence of the Great Plains Low-Level Jet on Boundary-Layer Processes and Their Parameterization in the GEOS-1 GCM	HELPAND;SCHUBERT	PR	NWP	910.3
Life Cycles of Persistent Anticyclonic Anomalies: Seasonal Dependence	HIGGINS;SCHUBERT	PR	AMS	910.3
Stratosphere-Troposphere Exchange	HOLTON;HAYNES;DOUGLASS; ROOD;PFISTER	JA	R-GEO	910.3
Modulation of Dynamic Heating in the Winter Extratropics Associated with the Cross-Equatorial Hadley Circulation	HOU;MOLOD	JA	JAS	910.3
Fast Multidimensional Flux Form Semi-Lagrangian Transport Schemes on the Sphere	LIN;ROOD	JA;PR	MWR; CHAMMP	910.3
A Global Multilevel Atmospheric Model Using a Vector Semi-Lagrangian Finite Difference Scheme. Part 2: Version with Physics	MOORTHI;HIGGINS;BATES	JA	MWR	910.3

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Response of the Zonally Asymmetric Flow to Time-Dependent Tropical Heating	PARK;SUAREZ;SCHUBERT	JA	JAS	910.3
Four-Dimensional Atmospheric Data Assimilation	PFAENDTNER	PR	AMATHS	910.3
Low-Frequency Variations in the Atmospheric Branch of the Global Hydrological Cycle	PFAENDTNER	PR	GEWEX	910.3
Data Assimilation for EOS	ROOD	PR	EOS-ST;AMS	910.3
An Update on NASA's Reanalysis Effort	SCHUBERT	PR	CDW	910.3
Variations in Moisture Transport and the Great Plains Low Level Jet	SCHUBERT	PR	NCAR;FSU;AMS	910.3
Some Early Results from NASA's Multi-Year Reanalysis	SCHUBERT;ROOD;PFAENDTNER; HIGGINS;PARK	PR	NWP	910.3

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Recalculation of OI Statistical Parameters Using Satellite Data in NASA GEOS/DAS	SEABLUM;BLOOM;TERRY; DaSILVA	PR	SMW	910.3
Correlated Instrument Errors in Optimal Interpolation (OI) Data Assimilation	STOBIE	JA	MWR	910.3
The Evolution of the 1991-2 Arctic Vortex and Comparison with the GFDL "SKYHI" General Circulation Model	STRAHAN;ROSENFIELD	JA	JGR	910.3
Goddard Earth Observing System (GEOS) General Circulation Model (GCM)	TAKACS;MOLOD;WANG	CR	GSC	910.3
Technical Report Series on Global Modeling and Data Assimilation, Vol. 1, Documentation of the Goddard Earth Observing System (GEOS) General Circulation Model-Version 1	TAKACS;MOLOD;WANG	TM	NASA	910.3
Production of a Multi-Year Data Set of Global SSM/I Surface Wind Vectors	ATLAS	PR	PBM	910.4
Evolution of a Low-Level Jet in Relation to an Upper-Level Baroclinic Disturbances East of the Rocky Mountains	ATLAS;JUSEM;KEYSER	PR	LCSYM	910.4

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Lidar Measured Winds from Space: An Essential Component for Weather and Climate Prediction	BAKER;EMMITT;ROBERTSON; ATLAS;MOLINARI;BOWDLE; PAEGLE;HARDESTY;MENZIES; KRISHNAMURTI;BROWN;POST; ANDERSON;LORENC; FITZJARRALD;MILLER;McELROY	JA	BAMS	910.4
Third International Workshop on Squeezed States and Uncertainty Relations	HAN;KIM;RUBIN;SHIH;ZACHARY	CP	UMBC	910.4
Relating the Tropical Pacific Temperature and Sea Level Responses Observed by AVHRR and Geosat Altimeter to Wind Forcing Derived from SSM/I Through an OGCM	LIU;TANG;ATLAS	PR	PBM	910.4
Quantifying Desert-fringe Vegetation Changes from Satellite Observations by Inverting Plant-Element Models	OTTERMAN;SUSSKIND;ASRAR; BRAKKE;STREBEL	PR;CP	SPIE	910.4
Day-Night Water Vapor Differences in Arid Coastal Areas: Surface, Radiosonde and Satellite Measurements	OTTERMAN;SUSSKIND;DALU; ALPERT;STARR	PR;CP	CHAP94	910.4
Moisture Profiles Derived from TOVS Sounding Data	SUSSKIND	PR	AMS	910.4
Tropical Convection Derived from TOVS Sounding	SUSSKIND	PR;CP	AMS	910.4

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Determination of Atmospheric and Surface Temperatures from Simulated AIRS/AMSU Sounding Data Part I: Clear Conditions	SUSSKIND;JOINER	JA	JGR-A	910.4
Assessing Climate Interannual Variability from NOAA Sounders: Preliminary Comparisons of 1988 vs. 1987	SUSSKIND;OTTERMAN;ROKKE; PIRAINO;IREDELL	PR;CP	ISSRS	910.4
Assessing Climate Interannual Variability from NOAA Sounders: Preliminary Comparisons of 1988 vs. 1987	SUSSKIND;OTTERMAN;ROKKE; PIRAINO;IREDELL	PR;CP	SPIE	910.4
Global Distribution of Rainfall Estimates from Satellite Observations	WU	PR	HAZMIT	910.4
New Insights and Characteristics of Atmospheric Variations Obtained from a Time-Frequency Characterization Approach	WU;HUANG;YEN;LAW;SUSSKIND	PR	AMS	910.4
Microwave and Infrared Rain Estimates During TOGA-COARE	ADLER;NEGRI;NELKIN;HUFFMAN	PR	AMS	912
NASA ER-2 Doppler Radar Reflectivity Calibration for the CAMEX Project	CAYLOR;HEYMSFIELD;BIDWELL; AMEEN	PREPRN	NASA	912

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Numerical Simulations of Gravity Currents in Uniform Shear Flows	CHEN	PR;JA	AMS;MWR	912
The Westerly Wind Burst of February 1988 and Its Impact on Latent Heat Fluxes as Seen from SSMI	CHOU;ATLAS;SHIE;ARDIZZONE	JA;PR	MWR; GEWEX	912
Estimates of Surface Humidity and Latent Heat Fluxes Over Oceans from SSMI Data	CHOU;ATLAS;SHIE;ARDIZZONE	JA	MWR	912
Visanalysis of the Mission to Planet Earth Databanks	HASLER;PALANIAPPAN;MANYIN	PR	AMS	912
Global Precipitation Estimates Based on a Technique for Combining Satellite-Based Estimates, Raingauge Analyses, and NWP Model Precipitation Information	HUFFMAN;ADLER;RUDOLF; SCHNEIDER;KEEHN	JA	AMS;JOC	912
A Method for Combining Passive Microwave and Infrared Rainfall Observations	KUMMEROW;GIGLIO	JA	JAOT	912
The Contributions of William E. Shenk to Satellite Meteorology	NEGRI	PR	AMS	912

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Diurnal and Interannual Variability of Precipitation Over Amazonia Derived from SSM/I Data	NEGRI;ADLER;NELKIN;HUFFMAN; MASSAMBANI	PR	AMS	912
Evaluation of Passive Microwave Precipitation Algorithms in Wintertime Mid-latitude Situations	NEGRI;NELKIN;ADLER;HUFFMAN; KUMMEROW	JA	JAOT	912
Wintertime Rainfall Over the United Kingdom and Northwest Europe Derived from Satellite Microwave Data	NELKIN;NEGRI;ADLER;HUFFMAN; KUMMEROW	PR	AMS	912
Microwave Brightness Temperatures from Horizontally and Vertically Structured Precipitating Clouds	ROBERTI;KUMMEROW	PR	AMS	912
Environmental Influences on Typhoon Bobbie's Precipitation Distribution	RODGERS;PEIRCE	PR;JA	AMS;JAM	912
Numerical Simulations of Convective Cloud Systems	TAO	PR	NOAA	912
The Effect of Melting Processes on the Development of Squall Lines in the Tropics and Midlatitudes	TAO;SCALA;FERRIER;SIMPSON	JA;PR	JAS;PSU	912

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Heat (Q1), Moisture (Q2) and Water Budgets of Convective Systems	TAO;SIMPSON	PR	GEWEX	912
Retrieval Algorithms for Estimating the Vertical Profiles of Latent Heat Release: Their Applications for TRMM	TAO;SIMPSON;LANG;ADLER	PR	GEWEX	912
A Parameterization for Land-Atmosphere-Cloud Exchange (PLACE): Testing a Detailed Process Model of the Partly Cloudy Boundary Layer Over Heterogeneous Land	WETZEL;BOONE	JA	JOC	912
MODIS Airborne Simulator Visible and Near Infrared Calibration—1991 FIRE Cirrus Field Experiment—Calibration Version -FIRE King 1.1	ARNOLD;FITZGERALD;GRANT; KING	TM	NASA	913
MODIS Airborne Simulator Visible and Near-Infrared Calibration—1992 ASTEX Field Experiment-Calibration Version-ASTEX King 1.0	ARNOLD;FITZGERALD;GRANT; KING	TM	NASA	913
The Albedo of Fractal Clouds	CAHALAN	PR	GEWEX	913
Analysis of ASTEX Liquid Water Path	CAHALAN;SILBERSTEIN;SNIDER	PR	AIR-SEA	913

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Stratocumulus Cloud Albedo Estimates	CAHALAN;WISCOMBE	PR	AR	913
A Critique of Wave-CISK as an Explanation for the 40-50 Day Tropical Intraseasonal Oscillations	CHAO	JA;PR	JA;MP	913
Tropical Intraseasonal Oscillation, Super Cloud Clusters, and Cumulus Convection Schemes. Part II: 3D Aqua-planet Simulations	CHAO;DENG	JA	JAS	913
Derivations of the Surface Solar Radiation from ERBE TOA Fluxes	CHOU	PR	SRB	913
Radiation Budgets in the Western Tropical Pacific	CHOU	PR	AR	913
Parameterizations for Water Vapor IR Radiative Transfer in the Middle Atmosphere	CHOU;RIDGWAY;YAN	JA	JAS	913
Remote Sensing of Precipitation from Satellite Microwave Measurements	CUDDAPAH	PR	GISS	913

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Scale-Invariance and Multifractals, A Dynamically Relevant Framework for the Characterization of Non-Stationary and Non-Gaussian Geophysical Processes	DAVIS;MARSHAK;WISCOMBE; CAHALAN	PR	AGU	913
A Synoptic Scale Overview of the TOGA COARE Intensive Observing Period November 1992- February 1993 Based on Analyses from U.S. Operational Global Data Assimilation Systems	FIORINO;LORD;LAU;PHOEBUS; STREY	TM	NASA	913
MODIS Airborne Simulator Level 1B Data User's Guide MODIS Technical Report Series, Vol. 3	GUMLEY;HUBANKS;MASUOKA	TM	NASA	913
Remote Sensing of Flooding in the U.S. Upper Midwest During the Summer of 1993	GUMLEY;KING	JA	BAMS	913
Multi-Sensor Remote Observations of Thin Cirrus Clouds During FIRE Cirrus II	GUMLEY;KING;TSAY	PR	AR	913
A Proposal for the Intercomparison of the Dynamical Cores of Atmospheric General Circulation Models	HELD;SUAREZ	JA	BAMS	913
Remote Sensing of Direct and Indirect Aerosol Forcing	KAUFMAN	PR;JA	AFWK	913

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Phase Function and Backscattering Fraction of Aerosol Particles: Models vs. Retrieved Values from Sky Brightness	KAUFMAN;GITELSON;HOLBEN; KARNIELI;NAKAJIMA;REMER	PR	AR	913
Smoke Aerosol in the Amazon— Optical Properties and Radiative Forcing	KAUFMAN;HOLBEN;SLUTSKER; NAKAJIMA	PR	CPA	913
Remote Sensing of Biomass Burning in the 21st Century	KAUFMAN;JUSTICE;TANRE	PR	AC	913
The Effect of Variations in Cloud Supersaturation of the Aerosol Indirect Effect on Climate	KAUFMAN;TANRE	JA	NATURE	913
Direct and Indirect Methods for Correcting the Aerosol Effect on Remote Sensing	KAUFMAN;TANRE	PR	ISPRS	913
Circulation and Rainfall Climatology of a 10-Year (1979-1988) Integration with the Goddard Laboratory for Atmospheres General Circulation Model	KIM;SUD	TM	NASA	913
Radiative and Microphysical Characteristics of a Multi-layered Cloud System: Preliminary Results from TOGA COARE	KING;TSAY	PR	AR	913

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Evolution of Large Scale Features During TOGA-COARE Based on 4-D Data Assimilations	LAU	PR	GISS	913
The Influence of Surface Temperature and Transport Processes on Water Vapor Distribution in Two Atmospheric General Circulation Models	LAU;MEHTA;FIORINO	PR	GCS	913
Intercomparison of Global Rainfall Distribution in AMIP GCMs	LAU;SUD;FIORINO;WALKER	PR	GEWEX	913
Studying Radiation/Cloud/Dynamics Feedback Processes Using Cloud-Resolving Cumulus Ensemble Models	LAU;SUI;CHOU;TAO	PR	CVCONF	913
The Influence of the Asian Monsoon on the Predictability of the Tropical Ocean-Atmosphere System	LAU;YANG	JA	NATURE	913
An Analysis Scheme for Deriving Global Soil Moisture for Observed Precipitation, Air Temperature, NDVI, and Simple Biosphere Model Hydrology	LISTON;WALKER;SUD	PR	GSW	913
Bounded Cascade Models and Non-Stationary Multifractals	MARSHAK;DAVIS;CAHALAN; WISCOMBE	JA	PR	913

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Scale-Invariance, Non-Stationarity and Intermittency in the Structure of Marine Stratocumulus Observed During FIRE '87 and ASTEX	MARSHAK;DAVIS;WISCOMBE; CAHALAN	PR	AGU	913
Alternative Stable Regimes of Surface And Climate Conditions in Sandy Arid Regions: Possible Relevance to Mesopotamian Drought 2200-1900 B.C.	OTTERMAN;STARR	JA	JAE	913
Status and Calibration of the MODIS Airborne Simulator for Earth Remote Sensing Applications	PLATNICK;KING;ARNOLD; COOPER;GUMLEY;TSAY	PR	ESSRS	913
Evaluation of GLA-GCM Upper-Tropospheric Moisture Using TOVS Radiance Observations	SALATHE, JR.;CHESTERS;SUD	PR;JA	AMS;JOC	913
On the Relationship Between Eurasian Snow Cover and the Asian Summer Monsoon	SANKAR-RAO;LAU;YANG	JA	IJOC	913
Water Vaport Measurements and the GEWEX Water Vapor Project (GVaP) Pilot Phase Instrument Intercomparison Campaign	STARR	PR	GCS	913
Analysis of Dynamical Forcing and Cloud Response: The 25 November 1991 FIRE Cirrus-II Case	STARR;LARE;POELLOT;MINNIS; SMITH	PR	AR	913

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A Simulation of El Nino Using Coupled GCMs	SUAREZ	PR	UOT	913
Simulated Vis-a-Vis Anlayzed Differences Between the Circulation and Precipitation for Summers of 1987 and 1988	SUD;LAU;WALKER;KIM	PR	TROPMET	913
A Rain Evaporation and Downdraft Parameterization to Complement a Cumulus Updraft Scheme and Its Evaluation Using GATE Data	SUD;WALKER	PR	NWP	913
Biogeophysical Effects of a Tropical Deforestation Scenario: A GCM Simulation Study	SUD;WALKER;KIM;LISTON; SELLERS;LAU	PR	TROPMET	913
A Simulation Study of the Importance of Surface Roughness in Tropical Deforestation	SUD;WALKER;KIM;LISTON; SELLERS;LAU	JA	TROPMET	913
Understanding Biosphere-Precipitation Relationships: Theory, Model Simulations, and Logical Inferences	SUE;LAU;WALKER;KIM	JA	MAUSAM	913
A Fourier-Riccati Approach to Radiative Transfer. Part II. Computations of Spectral Reflectance and Heating Rates in Cirrus-like Clouds	TSAY;GABRIEL;KING;STEPHENS	PR	AR	913

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Remote Sensing and Retrieval of Surface Bi-directional Reflectance	TSAY;KING	PR	AR	913
Remote Sensing and In-situ Measurements of Cloud Radiative and Microphysical Properties in ASTEX	TSAY;KING;PLATNICK;WANG	PR	AIRSEA	913
Impact of the Ongoing Amazonian Deforestation on Local Precipitation: A GCM Simulation Study	WALKER;SUD;ATLAS	JA	BAMS	913
EOSDIS: Are We Really Going to Get a Worldwide Earth Science Data System?	WISCOMBE	PR	CCPO	913
Towards Statistically Robust Definitions of Climatic State Variables Based on Scale-Invariance	WISCOMBE;DAVIS;MARSHAK	PR	AR	913
Modelling of Middle Atmosphere Dynamics - Results Based on a New Theory of Gravity Wave Parameterization	CHAN;MENGEL;MAYR	PR	AGU	914
In-Situ Generation of Planetary Waves Near the Mesopause During Solstices	CHAN;MENGEL;MAYR;HINES	PR	AGU	914

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Soliton Stars and Quark Stars	CHEN;CHIU;HWANG	JA;PR	PR;BU	914
Cosmology: A Brief Review (Lecture Series)	CHIU	PR	UMEX	914
Early Universe—Element Synthesis and Neutrinos (Lecture Series)	CHIU	PR	UMEX	914
Early Universe—Particle Equilibrium and the Problem of Dark Matter (Lecture Series)	CHIU	PR	UMEX	914
Inflationary Universe and Large-Scale Structure (Lecture Series)	CHIU	PR	UMEX	914
Maintenance of Sun's Differential Rotation and Reynolds Stresses	CHIU	PR	SOHO	914
Lightning on Venus?	COLE;HOEGY	JA	NATURE	914

<u>Title</u>	<u>Author</u>	<u>Doc.</u> <u>Type</u>	<u>Sponsor</u>	<u>NASA</u> <u>Code</u>
A Major Energy Source Venus' Ionosphere	COLE;HOEGY	JA	JGR	914
Ion Composition at High Latitudes	GREBOWSKY	PR	COSPAR	914
A New Look at Venus' H Distribution	GREBOWSKY;HARTLE;KASPRZAK	PR	COSPAR	914
Solar Activity Variations in Mid-latitude Thermospheric Meridional Winds	HEDIN;BUONSANTO;CODRESCU; DOBOIN;FESEN;HAGAN;MILLER; SIPLER	JA	JGR	914
Empirical Wind Model for the Middle and Lower Atmosphere—Part 2: Local Time Variations	HEDIN;FLEMING;MASON; SCHMIDLIN;AVERY;CLARK; FRANKE;TSUDA;VIAL; VINCENT;FRASER	TM	NASA	914
Parameterization of Gravity-wave Momentum Deposition in the Middle Atmosphere. Part I: Continous Spectrum of Extrowaves	HINES	JA	JAS	914
Doppler-Spread Parameterization of Gravity-Wave Momentum Deposition	HINES	PR	AGU	914

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Airglow Response to Vertically Standing Gravity Waves	HINES;TARASICK	JA	GRL	914
12 Years of Total Solar EUV Measurements at Venus, and Instrumental Improvements for Use in Earth Orbit	HOEGY;BRACE;PESNELL	PR	AGU	914
The One-Hundreth Year of Rudolf Wolf's Death: Do We Have the Correct Reconstruction of Solar Activity?	HOYT;SCHATTEN	PR	NATO	914
The Sun's Role in Climatic Change	HOYT;SCHATTEN	JA	OUP	914
A Homogeneous Solar Activity Reconstruction Based Upon Historical Observations, 1610-1993	HOYT;SCHATTEN	PR	AGU	914
The Aeronomy of the Upper Atmosphere: Quo Vadis?	MAYR	PR	AGU	914
Production of the Semi-Annual Oscillation by Gravity Waves Described with the Doppler-Spread Theory	MENGEL;CHAN;MAYR;HINES	PR	AGU	914

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
High-Speed Correction Factor to the 0+-0 Resonance Charge Exchange Collision Frequency	OMIDVAR;PESNELL	JA	GRL	914
The 0+-0 Collision Frequency in High Speed Flows	PESNELL;OMIDVAR;HOEGY; WHARTON	JA	JGR	914
Accuracy of 0+-0 Collision Frequency Deduced From Thermosphere-Ionosphere Observations	REDDY;HOEGY;PESNELL;MAYR; HINES	JA;PR	GRL;AGU	914
A Solar Dynamo Prediction: Cycle 23 = Cycle 22	SCHATTEN	PR	AAS;DC	914
A Hidden Variables Model for the BOHM/EPR Experiment	SCHATTEN	PR	UM-BC	914
Damping of Atmospheric Gravity Waves Through Interaction with Molecular Vibration	WHARTON	PR	AGU	914
Oscillation-Convection Coupling: Cause of Supergranulation?	WOLFF	JA	APJ	914

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Molecular and Isotopic Sampling of the Mars Atmosphere and Volatiles in the Near Surface Solid Phase Material	MAHAFFY	PR	JPL	915
UARS MLS O ₃ Soundings Compared with Lidar Measurements Using the Conservative Coordinates Reconstruction Technique	REDAELLI;LAIT;SCHOEBERL; NEWMAN;VISCONTI;D'ALTORIO; MASCI;RIZI;FROIDEVAUX; WATERS;MILLER	JA	JGR	915
Behavior of Atmospheric Ozone Observed from Space-Challenges in Stratospheric Ozone	BHARTIA	PR	CMA	916
Application of the Langley Plot Method to the Calibration of SBUV Instrument on Nimbus-7 Satellite	BHARTIA;TAYLOR;McPETERS; WELLEMEYER	JA	JGR	916
Temporal Variations in the Spectral Output of a Xenon Fluoride Excimer	BURRIS	JA	AO	916
Long-Term Calibration of the Shuttle Solar Backscatter Ultraviolet (SSBUV) Experiment (1989 to 1994)	CEBULA;HILSENARTH;DeCAMP; JANZ;McCULLOUGH	PR	ICR	916
Interannual Differences of the 1986/87 and 1989/90 Northern Hemisphere Stratospheric Winters	CERNIGLIA;JACKMAN;NIELSEN; DOUGLASS	PR	AGU	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A 3D Simulation of the Influence of a Cut-off Low on the Distribution of Northern Hemispheric Processed Air in Late January 1992	CERNIGLIA;ROOD;DOUGLASS	JA	JGR	916
Recent Trends in Ozone in the Upper Stratosphere: Implications for Chlorine Chemistry	CHANDRA;JACKMAN;FLEMING	JA	GRL	916
The Solar Cycle Variation of Ozone in the Stratosphere Inferred from the Nimbus-7 and NOAA-11 Satellites	CHANDRA;McPETERS	JA	JGR	916
Sensitivity of 2D Model Predictions of Ozone Response to Stratospheric Aircraft	CONSIDINE;DOUGLASS;JACKMAN	JA	JGR	916
New Light on the Stratosphere from the Upper Atmosphere Research Satellite and 3D Model Calculations	DOUGLASS	PR	ISU	916
Identification of Transport and Photochemical Influences of Reservoir Species Using a 3-D Model and UARS Observations	DOUGLASS;KAWA;ROOD;ALLEN; ROCHE;KUMER;MERGENTHALER; WATERS	PR	AMS	916
Interhemispheric Differences in Springtime Deactivation of Vortex C10	DOUGLASS;SCHOEBERL; STOLASKI;WATERS;RUSSELL, III; ROCHE	JA	JGR	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Satellite Estimation of Spectral UVB Irradiance Using TOMS Derived Total Ozone and UV Reflectivity	ECK;BHARTIA;KERR	JA	GRL	916
Relativistic Electron Fluxes in May 1992 and Their Effect on the Middle Atmosphere	GAINES;CHENETTE,IMHOF; JACKMAN;WINNINGHAM	JA	JGR	916
Stratospheric Ozone Depletion	GLEASON	PR	IPNP	916
Global Ozone Recovery	GLEASON;HERMAN;NEWMAN; SEFTOR;JAROSS;WELLEMEYER; McPETERS	PR	AGU	916
Measurements of Stratospheric Aerosols with a Combined Rayleigh/Raman Dial Lidar	GROSS;McGEE;SINGH; KIMVILAKANI	JA	AO	916
Flight Results for the Airborne Raman Lidar	HEAPS;BURRIS	PR	OPTSOC	916
Observations of the 1993 Antarctic Ozone Hole from Meteor-3/TOMS	HERMAN;McPETERS;SEFTOR; JAROSS	PR	AGU	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Meteor-3/TOMS Observations of the 1993 Ozone Hole	HERMAN;NEWMAN;McPETERS; KRUEGER;BHARTIA;SEFTOR; TORRES;JAROSS;CEBULA;LARKO; WELLEMEYER	JA	JGR	916
Changes in Surface Ultraviolet Exposure Derived from TOMS Data	HERMAN;TORRES;AHMAD; BHARTIA	PR	ARG	916
Calibration of the NOAA-11 SBUV/2 Ozone Data Set from 1989 to 1993 Using In-flight Calibration Data and SSBUV	HILSENRATH	JA	JGR	916
Ultraviolet Calibration Requirements for Satellite Detection of Ozone, Solar Irradiance and UVB Trends	HILSENRATH;BHARTIA	SP	NIST	916
Calibration of Long-Term (1978-1993) SBUV and TOMS Ozone Measurements	HILSENRATH;BHARTIA;CEBULA	PR	AGU	916
Effects of Space Shuttle Flight on the Reflectance Characteristics of Diffusers in the NIR,VIS and UV	HILSENRATH;WILLIAMS	JA	OE	916
An Observational Study of the Quasi-Biennial Oscillation in Ozone	HOLLANDSWORTH;BOWMAN; MCPETERS	JA	JGR	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Comparison of Trends from TOMS and Combined SBUV:SBUV/2 Total Ozone Time Series	HOLLANDSWORTH;McPETERS; FLYNN;PLANET	PR	AGU	916
1992 Quadrennial Ozone Symposium Proceedings	HUDSON	CP	OZONE	916
The Impact of Emissions from Space Transport Systems on the State of the Atmosphere	JACKMAN	PR	ISC	916
The Effects of Solar Proton Events on the Middle Atmosphere	JACKMAN	BOOK	DEEPAK	916
2D and 3D Model Simulations, Measurements, and Interpretation of the Influence of the October 1989 Solar Proton Events on the Middle Atmosphere	JACKMAN;CERNIGLIA;NIELSEN; ALLEN;ZAWODNY;McPETERS; DOUGLASS;ROSENFIELD;ROOD	JA	JGR	916
Scene Stabilization for TOMS Instrument Calibration	JAROSS;KRUEGER	PR	AGU	916
Calibration and Postlaunch Performance of the Meteor-3/TOMS Instrument	JAROSS;KRUEGER;CEBULA; SEFTOR;HARTMANN;HARING; BURCHFIELD	JA	JAOT	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Rotational-Raman Scattering (Ring Effect) in Satellite Backscatter Ultraviolet Measurements	JOINER;BHARTIA;CEBULA; HILENSRATH;McPETERS	JA	AO	916
Transport and Chemistry of Reactive Species in the Stratosphere: Comparison of UARS Observations with a Three-Dimensional Model	KAWA;DOUGLASS;ROOD;ALLEN; WATERS;ROCHE	PR	AMS	916
Observations of SO ₂ and NO by the Shuttle Solar Backscatter Ultraviolet Spectrometer on ATLAS-2	LEITCH;HILSENARTH;CEBULA	PR	SPIE	916
Technical Report Series on Global Modeling and Data Assimilation, Vol. 2—Direct Solution of the Implicit Formulation of Fourth Order Horizontal Diffusion for Gridpoint Models on the Sphere	LI;MOORTHI;BATES	TM	NASA	916
An Improved Stratospheric Ozone Lidar	McGEE;GROSS;SINGH;BUTLER	JA	OE	916
Correlation of Ozone Loss with the Presence of Volcanic Aerosols	McGEE;GROSS;SINGH;NEWMAN; MEGIE;GODIN;LACOSTE	JA	GRL	916
Measurements of Ozone Profiles at Southern Mid-Latitudes	McGEE;SINGH;GROSS; KIMVILAKANI;MATTHEWS	PR	ILRC	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Comment on the Paper "The Atmospheric SO ₂ Budget for Pinatubo Derived From NOAA-11 SBUV/2 Spectral Data	McPETERS	JA	GRL	916
Ozone Trend Measurements 1979-1994	McPETERS;FLYNN; HOLLANDSWORTH	PR	AMS	916
A Comparison of SBUV and SAGE II Ozone Profiles: Implications for Ozone Trends	McPETERS;MILES;FLYNN; WELLEMEYER;ZAWODNY	JA	JGR-A	916
Trajectory Mapping of Upper Atmosphere Research Satellite (UARS) Data	MORRIS;SCHOEBERL;SPARLING; NEWMAN;LAIT;ELSON;WATERS; SUTTIE;ROCHE;KUMER; RUSSELL,III	JA	JGR	916
Further Trajectory Mapping Studies	MORRIS;SCHOEBERL;SPARLING; ROCHE;KUMER	PR	AGU	916
An Objective Determination of the Polar Vortex Using Ertel's Potential Vorticity	NASH;NEWMAN;ROSENFIELD; SCHOEBERL	JA	JGR	916
Stratospheric and Mesospheric Transport with Winds from GSFC's Global Spectral Mechanistic Model	NIELSEN;JACKMAN;DOUGLASS; CERNIGLIA;ALLEN	PR	AMS	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
An Intercomparison of Trajectory Types Over the South Atlantic Region During TRACE-A	PICKERING;THOMPSON; McNAMARA;SCHOEBERL; BACHMEIER;FUELBERG; LORING;SINHA	PR	AMS	916
An Examination of Factors Contributing to Trajectory Uncertainty Over the South Atlantic	PICKERING;THOMPSON; McNAMARA;SCHOEBERL; FAHKRUZZAMAN;FUELBERG; LORING;SINHA	PR	AGU	916
Vertical Transport by Convective Clouds: Comparisons Between Cloud-Scale and Global-Scale Models	PICKERING;THOMPSON; McNAMARA;TAO;MOLOD;ROOD	JA	GRL	916
Simulation of Convective Transport of Biomass Burning Emissions Over Brazil During TRACE-A: Effects of Tropospheric O ₃ Production	PICKERING;THOMPSON;TAO; TRACE-A Team	PR	CACGP	916
The Sensitivity of Stratospheric Photodissociation Rates to the Solar Spectral Resolution in the Schumann-Runge Bands	ROSENFIELD	JA	JATP	916
Radiative and Dynamical Effects of the Mt. Pinatubo Aerosol Calculated with a Two-Dimensional Interactive Model	ROSENFIELD;CONSIDINE; BACMEISTER;DOUGLASS; JACKMAN;SCHOEBERL	PR	AMS	916
An Analysis of the Antarctic HALOE Trace Gas Observations	SCHOEBERL;LUO;ROSENFIELD	JA	JGR	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Three Dimensional Structure of Vortex Filaments	SCHOEBERL;NEWMAN;LAIT	PR	AMS	916
Trajectory Modelling	SCHOEBERL;SPARLING	CP	EFSUM	916
Trajectory Model Comparison of Stratospheric Data Assimilaton Systems	SPARLING;COY;SCHOEBERL; ROOD;SWINBANK;POPE	PR	AGU	916
Trajectory Modelling of Emissions from Lower Stratospheric Aircraft	SPARLING;SCHOEBERL; DOUGLASS;WEAVER;NEWMAN; LAIT	JA	JGR	916
A Monte Carlo Study of Photochemical Model Uncertainties in Upper Tropospheric Species	STEWART;THOMPSON; KONDAGUNTA	PR	AGU	916
The Potential Effects of Aircraft Emissions on Ozone	STOLARSKI	PR	ACS	916
Ozone Trends and Climatology from Satellite Data	STOLARSKI	PR		916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Tropospheric Ozone in the Tropics: Observations from Aircraft and Remote Sensing	THOMPSON	PR	NCAR	916
Modeling CO in the Atmosphere	THOMPSON	PR	WMO	916
Tropospheric Ozone in the Tropics	THOMPSON	PR	RUTGERS	916
Some Aspects of Modeling OH and Related Species Measurements	THOMPSON	PR	AMS	916
Aspects of Modeling the Tropospheric Hydroxyl Radical Concentration	THOMPSON	JA	IJC	916
Tropical Tropospheric Ozone from Aircraft Measurements and Satellites	THOMPSON	PR	SUNY	916
Ozone Changes in the Future - Key Processes and Predictions of Trends	THOMPSON	PR	BOC	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Measuring and Modeling the Tropospheric Hydroxyl Radical (OH)	THOMPSON	JA	JAS	916
Total Ozone Over Southern Africa During SAFARI-92/TRACE-A	THOMPSON;DIAB;BODEKER; ZUNCKEL;COETZEE;ARCHER; McNAMARA;PICKERING; COMBRINK;MRAVLAG;SOKOLIC; FISHMAN;NGANGA	JA	JGR	916
Tropospheric Ozone in Southern Africa During TRACE-A and SAFARI 1992	THOMPSON;McNAMARA;HUDSON; PR KIM;GREGORY;DIAB;BODEKER; SOKOLIC;MRAVLAG;COETZEE; ZUNCKEL;JURY	PR	AMS	916
Ozone Over Southern Africa and the Atlantic During the 1992 IGAC/ STARE/SAFARI/TRACE-A Mission	THOMPSON;McNAMERA; PICKERING;HUDSON;TRACE-A Team;SAFARI Team	PR	CACGP	916
Southern African Tropospheric Ozone in 1989: Dynamics and Photochemistry	THOMPSON;PICKERING; McNAMARA;SCHOEBERL; HUDSON;KIM	PR	AGU	916
A Monte Carlo Study of Photochemical Model Uncertainties Affecting the Calculation of Subsonic Perturbations in the Upper Troposphere	THOMPSON;STEWART	PR	DLR;AEAP	916
Effect of Stratospheric Aerosol on Ozone Profile from BUV Measurements	TORRES;BHARTIA	JA	GRL	916

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Properties of Mt. Pinatubo Aerosols as Derived from Nimbus-7 TOMS Measurements	TORRES;HERMAN;BHARTIA; AHMAD	JA	JGR	916
Fine-Scale, Poleward Transport of Tropical Air During AASE 2	WAUGH;PLUMB;NEWMAN; SCHOEBERL;LAIT;LOEWENSTEIN; PODOLSKY;ELKINS;CHAN	JA	GRL	916
Tracer Transport for Realistic Aircraft Emission Scenarios Calculated Using a Three-Dimensional Model	WEAVER;DOUGLASS;ROOD	JA	JGR	916
Enhanced ER-2 and DC-8 Lidar Observations in TOGA/COARE	CAVANAUGH;SPINHIRNE;BLAIR; SCOTT;CHUDAMANI	PR	ILRC	917
Ground-based Lidar Wind Measurement with the Edge Technique	GENTRY;KORB;LI	PR	ILRC	917
Raman Lidar Profiling of Atmospheric Water Vapor: Simultaneous Measurements with Two Colocated Systems	GOLDSMITH;BISSON;FERRARE; EVANS;WHITEMAN;MELFI	JA	BAMS	917
Observations of Water Vapor by Ground-based Microwave Radiometers and Raman Lidar	HAN;SNIDER;WESTWATER;MELFI; FERRARE	JA	JGR	917

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Spaceborne Lidar Wind Measurement with the Edge Technique	KORB;GENTRY	PR	ISSRS	917
Atmospheric DIAL Temperature Profile Measurements	KORB;SCHWEMMER;PRASAD; WENG;FAMIGLIETTI;FLAMANT	PR	ILRC	917
Effective Frequency Technique	KORB;WENG	PR	MUSCLE7	917
Advance Atmospheric Water Vapor Profile Measurements Using a Raman Lidar	MELFI;WHITEMAN;FERRARE	PR	IGARSS	917
Aerosol Lidar Using Holographic Scanning Telescope	SCHWEMMER;COYLE;GUERRA; PALM;WILKERSON	PR	ILRC	917
Comparison of Upper Tropospheric Water Vapor from GOES, Raman Lidar, and CLASS Measurements During FIRE Cirrus-II	SODEN;ACKERMAN;STARR; MELFI;FERRARE	JA	JGR	917
Comparison of Measured and Calculated Water Vapor Absorption in the Near Infrared	SPINHIRNE	PR	AMS	917

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Observations of the Bi-Directional and Spectral Reflectance of Cirrus and Other Clouds	SPINHIRNE	PR	AMS	917
Micro Pulse Lidar Systems and Applications	SPINHIRNE	PR	ILRC	917
Aerosol Distribution and Formation in the Pacific Region from the GOLBE Experiment	SPINHIRNE	PR	TU-J;MRI-J	917
FORTRAN Programs to Process Magsat Data for Lithospheric, External Field, and Residual Core Components	ALSDORF;von FRESE	TM	NASA	920
Thermal Radiant Exitance Model Performance: Soils and Forests	BALICK;SMITH	PR;CP	ESSRS	920
Thermal Radiant Exitance Model Performance: Soils and Forests	BALIK;SMITH	PR;CP	ISSRS	920
MODIS Technical Report Series Volume 2, MODIS Level 1 Geolocation, Characterization and Calibration Algorithm Theoretical Basis Document, Version 1	BARKER;HARNDEN; MONTGOMERY;ANUTA;KRARAN; KNIGHT;BRYANT;McKAY;SMID; KNOWLES,JR.	TM	NASA	920

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Evolving Role of the NASA in Space Geodesy	BOSWORTH	PR	A-P	920
Multi-Beam Laser Altimeter for Surface Lidar Observations from Space	BUFTON;HARDING;ROSSI	PR;JA	IEEE	920
MODIS Technical Report Series—Volume 1, MODIS Level 1A Software Baseline Requirements	MASUOKA;FLEIG;ARDANUY; GOFF;CARPENTER;STOREY	TM	NASA	920
Geodetic Techniques for Monitoring Long-Term Sea-Level Variations	NEREM	PR	WEGENER	920
A Thermal Exitance and Energy Balance Model for Forest Canopies	SMITH;GOLTZ	JA	IEEE	920
Neural Network Inversion of Bidirectional Reflectance	SMITH;PEDELY;KNOX	PR	IGARSS	920
Evaluation of a Multi-Story, Forest Canopy Remote Sensing Model Driven by Stand-level Architecture	SMITH;RANSON;KNOX; WEISHAMPEL;LEVINE;WILLIAMS; SHIMABUKURO	PR;CP	ESSRS	920

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Evaluation of a Multi-Story, Forest Canopy Remote Sensing Model Driven by Stand-Level Architecture	SMITH;WEISHAMPEL; SHIMABUKURO;RANSON;LEVINE; KNOX;WILLIAMS	PR;CP	ISSRS	920
SLR 2000: An Autonomous and Eyesafe Satellite Laser Ranging Station	DEGNAN	PR	LR	920.1
Thirty Years of Satellite Laser Ranging	DEGNAN	PR	LR	920.1
The Q-Switched Microlaser: A Simple and Reliable Alternative to Model Locked Lasers for Ranging	DEGNAN;DALLAS	PR	LR	920.1
Tracking Satellites with the Totally Automated SLR 2000 System	McGARRY;CONKLIN;BANE; EICHINGER;SEERY;RICKLEFS; DUNN	PR	LR	920.1
Deploying the New Graphical User Interface Control Software on the NASA Satellite Laser Ranging Systems	McGARRY;SEERY;EMENHEISER; CHEEK;RICKLEFS	PR	LR	920.1
Millimeter-Wavelength Observations of Minor Planets	ALTENHOFF;JOHNSTON; STUMPFF;WEBSTER	JA	AA	920.2

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A Simple and Free System for Automated Network Backups	ANDERSON;KIROUAC	PR;CP	SANS	920.2
Two-way Fiber-Optics Command, Control and Data Acquisition Link for Tethered Satellites: A Persian Study	WEBSTER	PR	FO&P	920.2
The Small Expandable Deployer System (SEDS) End Mass Experiments	WEBSTER	PR	ESA	920.2
FORTRAN Programs to Process Magsat Data for Lithospheric, External Field and Residual Core Components	ALSDORF;von FRESE	PREPRN		921
Climatic Impact of Deglacial Polar Motion	BILLS;MENGEL	PR	AGU	921
Dynamic Earth System Function for Length-of-Day Variations	CHAO	JA;PR	GRL;AGU	921
Zonal Tidal Signals in the Earth's Polar Motion	CHAO	PR	AGU	921

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Global Gravitational Changes Due to Atmospheric Mass Redistribution as Observed by LAGEOS	CHAO;EANES	JA	GJI	921
Coseismic Effects on the Earth's Rotation and Gravitational Field and their Energy Consideration	CHAO;GROSS	PR	IUTAM	921
Geophysical Analysis of Zonal Tidal Signals in Length of Day	CHAO;MERRIAM;TAMURA	JA	GJI	921
Recent Findings in High-frequency Earth Rotation Variations Revealed by VLBI	CHAO;STEINBERG;RAY;MA; GIPSON	PR	VLBI	921
Evaluation of the Importance of Model Features	COHEN	JA		921
Uplift on the Kenai Peninsula, Alaska	COHEN	JA	JGR	921
Self-consistent Model of Subduction Zone Crustal Deformation Incorporating Viscoelastic Flow, Gravitational Relaxation and Steady-State and Transient Fault Creep-at-Depth Effects	COHEN	PR	AGU	921

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Uplift of the Kenai Peninsula, Alaska, Since the 1964 Prince William Sound Earthquake	COHEN;HOLDAHL;SAFFORD; SCHULTZ;CAPRETTE;HILLA	PR	AGU	921
New Geomagnetic Limits on the Photon Mass on Long-Range Forces Co-existing with Electromagnetism	FISCHBACH;KLOOR;LANGE;LUI; PEREDO	JA	PRL	921
Recovery and Use of Continental Topography from Overland Radar Altimetry at the Goddard Space Flight Center	FREY;BRENNER	PR	AGU	921
Effects Due to Overlapping Large Impact Basins on Mars	FREY;REIDY;ROARK;STOCKMAN	PR	LPSC	921
Impact Basins in Southern Daedalia, Mars: Evidence for Clustered Impactors?	FREY;ROARK	PR	LPSC;AGU	921
Volcano Morphometry on Venus	GARVIN	PR	LPSC	921
Geologic Mapping of Devana Quadrangle (v29), Venus	GARVIN	PR	VGMM	921

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Topographic Characterization and Monitoring of Mount Rainier and Mount St. Helens via Laser Altimetry	GARVIN;HARDING;BLAIR;COYLE	PR	AGU	921
Geodetic Aircraft Laser Altimetry of Glaciers	GARVIN;WILLIAMS;BUFTON	PR	AGU	921
Laser Altimeter Waveform Measurement of Vegetation Canopy Structure	HARDING;BLAIR;GARVIN; LAWRENCE	PR	IGARSS	921
Airborne Laser Altimetry and Interferometric SAR Measurements of a Vegetated Landscape: A TOPSAT Analog	HARDING;BLAIR;RODRIGUEZ; MICHEL	PR	AGU	921
Coseismic Slip in the 1964 Prince William Sound Earthquake: A New Geodetic Inversion	HOLDAHL;SAUBER	JA	PAG	921
An Investigation of a Correlation/Covariance Method of Signal Extraction with Satellite Magnetic Anomaly Data as Example	LANGEL	JA	JGR	921
The Global Geomagnetic Network, Possible Cooperation with Other Geophysical Networks	LANGEL	PR	IRIS	921

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Rationale and Preliminary Operational Plan to Upgrade the U.S. Magnetic Anomaly Data Base	LANGEL	GD	NGW	921
Toward an Optimal Distribution of Geomagnetic Observation	LANGEL;BALDWIN;GREEN	JA	JGG	921
On Milankovitch Glaciation Cycles	LIU	PR	AGU	921
Original Size of the Sudbury Impact Structure: New Interpretations of ERS-1 Radar Imager	LOWMAN	PR	GAC	921
Review of "The Geology of Multi-Ring Impact Basins"	LOWMAN	JA	SCIENCE	921
Igneous Origin of "Sudbury Breccias" in the Superior Province, Ontario	LOWMAN, JR.;ROUSELL	JA	G	921
Considerations in Constructing a VLBI Source Catalog	MA	PR	IAU	921

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Fundamental Celestial Reference Frame Realized Through VLBI	MA	PR	IERS	921
Geodetic and Astrometric Results Using the VLBA	MA	PR	VLBI	921
Vertical Signatures Observed in VLBI Data	MA;GIPSON;MacMILLAN;CLARK; BILLS	PR	AGU	921
Contemporary Plate Motions from VLBI	MA;GIPSON;RYAN	PR	AGU	921
Revised Vector and Scalar MAGSAT Anomaly Maps for Geologic Interpretation	RAVAT;LANGE;PURUCKER; ARKANI-HAMED;ALSDORF	JA	JGR	921
Interpretation of Satellite Magnetic Anomalies	RAVAT;TAYLOR;FRAWLEY	PR	USINDIA	921
Diurnal and Semidiurnal Variations in the Earth's Rotation Induced by Oceanic Tides	RAY;STEINBERG;CHAO; CARTWRIGHT	JA	SCIENCE	921

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Has Climate Changed the Earth's Tilt?	RUBINCAM	JA	PO	921
The Gravitational Field of Deimos	RUBINCAM;CHAO;THOMAS	JA	ICARUS	921
Is Deimos Uniform in Density?	RUBINCAM;CHAO;THOMAS	PR	AGU	921
Geodetic Slip Rate for Eastern California Shear Zone and the Recurrence Time of Mojave Desert Earthquakes	SAUBER;THATCHER;SOLAMON; LISOWSKI	JA	NATURE	921
Noachian and Hesperian Modification of the Original Chryse Impact Basin Topography	STOCKMAN;FREY	PR	LPSC	921
Source of the Bangui Magsat Anomaly: A Testable Speculation	TAYLOR;GIRDLER;HARGRAVES	PR	AGU	921
Evidence for an Impact Origin for the Bangui Anomaly: Central African Region	TAYLOR;HARGARVES;FRAWLEY	PR	USINDIA	921

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Lithospheric Modeling of Regional Magnetic and Gravity Anomalies of the Arabian Plate	TAYLOR;KIM;RAVAT	PR	AGU	921
Geological Interpretation of Magsat Data: Examples from Eurasia and the Eastern Indian Ocean	TAYLOR;RAVAT	PR	USINDIA	921
Isostatic Geopotential Field Anomalies of the Arabian Plate	TAYLOR;von FRESE	PR	AGU	921
Induction Effects in Terrestrial Magnetism Revisited	VOORHIES	PR	AGU	921
Time Varying Fluid Flow at the Top Earth's Core Derived from Definitive Geomagnetic Reference Field Models	VOORHIES	PR	AGU	921
Steady Induction Effects in Geomagnetism. Part IC: Geomagnetic Estimation of Steady Surficial Core Motions—Application to the Definitive Geomagnetic Reference Field Models	VOORHIES	TP	NASA	921
Time-Varying Fluid Flow at the Top of Earth's Core: Derived from Definitive Geomagnetic Reference Field Models	VOORHIES	PR	SEDI	921

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Simultaneous Solution for Core Magnetic Field and Fluid Flow Beneath an Electrically Conducting Module	VOORHIES;NISHIHAMA	JA	JGR	921
Phenological Changes in Needle Fluorescence of Damaged and Undamaged Norway Spruce Trees	BANNINGER;CHAPPELLE	PR;CP	IGARSS	923
An Object-Oriented Environment for Re-use of Ecosystem Models	BINDINGNAVLE;KNOX;KALB	CP	SCS	923
Estimating the Fraction of Absorbed Photosynthetically Active Radiation (APAR) at FIFE with Airborne Bidirectional Spectral Reflectance Data	BROWN de COLSTOUN; WALTHALL;RUSSELL;IRONS	JA	RSE	923
Multistand Radar Modeling from a Boreal Forest	CHAUHAN;LANG;RANSON;KILIC	PR	IGARRS	923
Characterization of Compounds Responsible for the Variation in Blue Band Fluorescence from Nitrogen Deficient Soybeans	CORP;CHAPPELLE;McMURTREY; KIM	PR;CP	IGARSS	923
A New Fluorescence Band Obtained by the Excitation of Plants at 280 nm and its Implications to the Remote Assessment of Vegetation	CORP;CHAPPELLE;McMURTREY; KIM	PR	IGRSS	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Measuring Crop Residue Cover by Fluorescence Imaging	DAUGHTRY;McMURTRY; CHAPPELLE	PR	IGARSS	923
Fluorescence Imaging to Quantify Crop Residue Cover	DAUGHTRY;McMURTRY; CHAPPELLE;DULANEY;HUNTER	PR;CP	ISPRS	923
Measuring Crop Residue Cover Using Remote Sensing Techniques	DAUGHTRY;McMURTRY; CHAPPELLE;HUNTER;STEINER	JA	JTAC	923
Quantifying Crop Residue Cover by Fluorescence Imaging	DAUGHTRY;McMURTRY III;CHAPPELLE	PR;CP	IGARSS	923
Measurement of the Fluorescence of Crop Residues	DAUGHTRY;McMURTRY III; CHAPPELLE;DULANEY;HUNTER	PR;CP	ISPRS	923
Potential for Discriminating Crop Residues from Soil by Reflectance and Fluorescence	DAUGHTRY;McMURTRY III; CHAPPELLE;DULANEY;IRONS; SATTERWHITE	PR	AGR	923
Directional Radiance Measurements: Challenges in the Sampling of Landscapes	DEERING	PR	ISPRS	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Surface Temperature Retrieval in a Temperate Grassland with Multi-resolution Sensors	GOETZ;HALTHORE;HALL; MARKHAM	JA	RSE	923
VEG: Intelligent Workbench for Studying Earth's Vegetation	HARRISON;HARRISON;KIMES	JA	ESAPP	923
VEG: An Intelligent Workbench for Analyzing Spectral Reflectance Data	HARRISON;HARRISON;KIMES	PR	SAAI	923
Sunphotometer Network for Monitoring Aerosol Properties in the Brazilian Amazon	HOLBEN;ECK;SETZER;PEREIRA; VERMOTE;REAGAN;KAUFMAN; TANRE;SLUTSKER	JA	BSYMRS	923
A Ground Based Network System for Measuring Aerosols and Aerosol Properties in Near-Real Time	HOLBEN;ECK;SLUTSKER;TANRE; VERMOTE, et al.	PR	ISPRS	923
Linear Mixing Model Applied to AVHRR LAC Data	HOLBEN;SHIMABUKURO	JA	BSYMRS	923
HRMSI Data Compression (9-Future System or 1-Data Pre-Processing)	IRONS;YEH;WILLIAMS;GRAHAM	PR	ISPRS	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
"Evergreen" Aspen in the Boreal Forest	KHAROUK;MIDDLETON;SPENCER; PR ROCK;WILLIAMS		BFGC	923
The Use of High Spectral Resolution Bands or Improving Remote Sensing Estimations of Absorbed Photosynthetically Active Radiation	KIM;DAUGHTRY;CHAPPELLE; PR;CP McMURTRY		ISPRS	923
Application of AI Techniques to Infer Vegetation Characteristics from Directional Reflectance(s)	KIMES;HARRISON;HARRISON	PR	ISPRS	923
Extension of Off-Nadir View Angles for Directional Sensor Systems	KIMES;HARRISON;HARRISON	JA	RSE	923
Modeling Forested Landscapes: Limits to Conventional Remote Sensing for Estimating Parameters Fields	KNOX;RANSON;WEISHAMPEL; PR SUN		AIBS	923
Radar Analysis and Modeling of Forest Stands for Biomass Estimation	LANG;RANSON;CHAUHAN;KILIC; PR;CP SUN		PIERS	923
K-distribution for Multilook Processed Polarimetric SAR Imagery	LEE;SCHULER;LANG;RANSON	PR;CP	IGARRS	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Classifying Soil Structure from Soil Characterization Data Using Neural Networks	LEVINE;KIMES	CP	GIS	923
Angular Characteristics of the Pathfinder AVHRR Land Thermal Data and Radiative Transfer Modeling	LIANG;RANSON	JA	IEEE	923
Radiometric Calibration of the Landsat-7 ETM+	MARKHAM;AHMAD;IRONS; WILLIAMS	PR	IGARSS	923
Radiometric Characterization of Diode Array Spectrometers	MARKHAM;WILLIAMS;SCHAFER; WOOD;KIM	JA	RSE	923
Field Canopy and Leaf Level Fluorescence for Distinguishing Plant Condition Differences Due to Nitrogen Fertilization Level	McMURTREY;CHAPPELLE; DAUGHTRY;KALSHOVEN;CORP; KIM	PR	IGARSS	923
Evaluation of Fluorescence and Reflectance Sensing Techniques for Detecting Crop Residues from Soils	McMURTREY;DAUGHTRY; CHAPPELLE	PR;CP	ASA	923
Field and Leaf Level Fluorescence for Distinguishing Plant Growth Differences Due Nitrogen Fertilization in a Corn Canopy	McMURTRY III;CHAPPELLE; KIM;CORP;DAUGHTRY; KALSHOVEN	PR;CP	IGARSS	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Bidirectional Spectral Reflectances of Boreal Forests	MIDDLETON	PR	FBMTG; CCRS	923
Interaction in Responses for Photosynthesis, Pigments, and Growth Induced by UV-B and UV-A Irradiances	MIDDLETON;TERAMURA	JA	JPP	923
Remote Sensing of Vegetation by Its Reflectance Spectra	MYNENI;HALL;SELLERS; MARSHAK	JA	SCIENCE	923
Interannual Variability of Carbon Assimilation by Terrestrial Vegetation From 1982-1990	MYNENI;LOS;SELLERS;NEMANI; TUCKER;ASRAR;COLLATZ; LEEMANS;PINKER	JA	NATURE	923
Effects of Leaf-transmittance vs. Leaf-reflectance on Bidirectional Scattering from Canopy/Soil Surface: An Analytical Study	OTTERMAN;BRAKKE;SMITH	JA	AO	923
Improving Ecological Field Studies: Integrating GIS and Stem Mapping	PRIHODKO;FORESMAN;KNOX	MW	GIS	923
Preferred Wavelengths and Solar Angles for the Estimation of Vegetation Lai, Albedo and Apar Through BRDF Model Inversions	PRIVETTE;MYNENI;EMERY;HALL	JA	IEEE	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Importance and Determination of an Anisotropic Soil Boundary in Vegetation BRDF Models	PRIVETTE;MYNENI;EMERY;PINTY	JA	JGR	923
A Revised Land-Surface Parameterization (SiB2) For GCMs. Part 3: The Greening of The Colorado State University General Circulation Model	RANDALL;SELLERS;BERRY; DAZLICH;COLLATZ;DENNING;LOS; FIELD;FUNG;JUSTICE;TUCKER; ZHANG	JA	JOC	923
Forest Structure From Synthetic Aperture Radar Imagery	RANSON;SUN	PR	MRS	923
Interfacing Forest Succession and Remote Sensing Models for Forest Ecosystem Studies	RANSON;SUN;WEISHAMPEL;KNOX	PR	ESSRS	923
Comparison of Airborne and Surface Bidirectional Spectral Reflectance Factors, Spectral Hemispherical Reflectance and Spectral Vegetation Indices	RUSSELL;WALTHALL;IRONS; BROWN de COLSTOUN	JA	JGR	923
A Revised Land Surface Parameterization (SiB2) for Atmospheric GCMs. Part 2: The Generation of Global Fields of Terrestrial Biophysical Parameters from Satellite Data	SELLERS;LOS;TUCKER;JUSTICE; DAZLICH;COLLATZ;RANDALL	JA	TOC	923
A Revised Land Surface Parameterization (SiB2) for Atmospheric GCMs. Part 1: Model Formulation	SELLERS;RANDALL;COLLATZ; BERRY;FIELD;DAZLICH;ZHANG; COLLELO	JA	JOC	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Temperature Stability of Three Portable, Silicon Diode Array Spectrometers	STARKS;SCHIEBE;WALTER-SHEA; MARKHAM	JA	RSE	923
Spatially Explicit Modeling of Radar Backscatter from Forest Canopies	SUN;RANSON	JA;PR	IEEE;ESSRS	923
Towards Operational Radiometric Calibration of NOAA AVHRR Imagery in the Visible and Infrared Channels	TEILLET;HOLBEN	JA	CJRS	923
Expansion and Contraction of the Sahara Desert from 1980 to 1992	TUCKER	PR	SAAB	923
Deforestation and Habitat Fragmentation in the Amazon Basin of Brazil	TUCKER	PR	U MON	923
Expansion and Contraction of the Sahara from 1980 to 1993	TUCKER	PR	U MON	923
Satellite Remote Sensing Studies of Desertification and Deforestation: Actual Findings vs. Assumed Situations for Arid Africa and the Amazon	TUCKER	PR	ETC	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Desertification on the South Side of the Sahara: Did the Desert Expand from 1980 to 1993?	TUCKER;DREGNE;NEWCOMB	PR	ISREM	923
Estimating Net Ecosystem Exchange of Carbon Using Remote Sensing Derived FAPAR and an Ecosystem Model	VEROUSTRAETE;MYNENI;PATYN	JA	RSE	923
Understanding the Biosphere From Space: Which Models Should We Develop?	VERSTRAETE;PINTY;MYNENI	PR	ISPRS	923
Remote Sensing with Radar in Ecosystem Studies	WARING;WAY;HUNT;MORRISEY; RANSON;WEISHAMPEL;OREM	JA	BIO-S	923
The Landsat-7 Program: A Status Report	WILLIAMS	PR	THEMCON	923
The Landsat-7 Instrument Payload: Sensors for Data Continuity and Scientific Advancement	WILLIAMS;IRONS	PR	ISPRS	923
Remote Sensing of Forest Ecosystem Dynamics: Measurements and Modeling	WILLIAMS;RANSON;KNOX;LEVINE	PR;CP	ISPRS	923

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Global Multistage, Multispectral Sampling Capabilities in the Late 1990s with Sensors on LANDSAT 7 and EOS AMI Platform	WILLIAMS;SELLERS;IRONS	PR	ESSRS	923
Laser Altimetry Simulator Description and User's Guide	ABSHIRE;McGARRY;PACINI;ELMAN;BLAIR;SALLITT	TM		924
Satellite-to-Satellite Laser Ranging Instrument for Earth Gravity Measurements	ABSHIRE;MILLAR;SUN	PR	ILRC	924
Geoscience Laser Altimeter System (GLAS)	ABSHIRE;SMITH;SCHUTZ	PR	ILRC	924
Considerations for the Design and Implementation of the Geoscience Laser Altimeter System Laser Transmitter	AFZAL;SELKER	PR	ILRC	924
A Simple, High-efficiency, Diode Laser-pumped, Q-switched Laser	AFZAL;SELKER	JA;PR;CP	OPT-L;ASSL	924
Stripe Pumping: An Alternative to End-Pumping	AFZAL;SELKER	PR	IEEE	924

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Optimization of an Airborne Laser Altimeter for Remote Sensing of Vegetation and Tree Canopies	BLAIR;COYLE;BUFTON;HARDING	PR	IGARSS	924
Differential Absorption Lidar Measurements of Atmospheric Water Vapor Using a Pseudonoise Code Modulated AlGaAs Laser	RALL	TM	NASA	924
A Diode Laser-Pumped, Diode Laser-Seeded Nd:YLF Regenerative Amplifier	SELKER;AFZAL;DALLAS;YU	PR	CLEO	924
A Pulse Transmission Mode Q-Switched Nd: YLF Laser Pumped by Cylindrical Micro-lens Collimated Diode Bars	SELKER;AFZAL;REICHERT	PR;CP	ASSL	924
Daytime Measurements of Water Vapor Mixing Ratio Using Raman Scattering Techniques and Assessment	WHITEMAN;MELFI;FERRARE; EVANS	PR	ILRC	924
Aircraft Observation of Satellite Sensor Gain: Past Results and Proposed Improvements for Mission to Planet Earth Sensors	ABEL	PR	AGU	925
Volume 2, MODIS Level 1 Geological, Characterization and Calibration Algorithm Theoretical Basic Document, Version 1	BARKER;HARNDEN; MONTGOMERY;ANUTA;KVARAN; KNIGHT;BRYANT;McKAY;SMID; KNOWLES,JR.;THOME;BIGGAR; SLATER;STORY;FLEIG;MASUOKA; BADEN	TM	NASA	925

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Impact of Recent Enhancements and Upgrades of the Advanced Solid-State Array Spectroradiometer (ASAS)	DABNEY	PR	CIT	925
Remote Sensing of Crop Parameters with a Polarized, Frequency-Doubled Nd:YAG Laser	KALSHOVEN, JR.;TIERNEY, JR.	JA	AO	925
High Frequency Filtering in Global Mean Temperature	KIM	JA	SCIENCE	925
Solar Irradiance Variations and Climatic Response (Part II, Proxy Data ERA)	KIM;BROWN;HOYT	JA	JGR	925
Solar Irradiance Variations and Climatic Response (Part I, ERB Era)	KIM;BROWN;HUANG;KYLE	JA	JGR	925
A Low-Cost Spacecraft Receiver for Orbit and Attitude Determination	CLARK;VARNEY;BAUER	PR	ION	926
Non-Conservative Forces on LAGEOS I and LAGEOS II	KOLENKIEWICZ;ROBBINS;TORRENCE	PR;JA	COSPAR	926

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Precision Orbit Determination for T/P Using TDRSS Data	LERCH;DOLL;LUTHCKE;KLOSKO; WILLIAMSON;McCARTHY	PR;CP	COSPAR	926
High Degree Gravitational Sensitivity From Mars Orbiters for the GMM-1 Gravity Model	LERCH;SMITH;CHAN;PATEL; CHINN	TM; PREPRN	NASA	926
NASA Space Geodesy Program— GSFC, Data Analysis-1993, VLBI Geodetic Results 1979-92	MA;RYAN;CAPRETTE	TM	NASA	926
Terrestrial and Planetary Gravity Fields	NEREM	JA	R-GEO	926
Gravity Field Determination and Characteristics: Retrospective and Prospective	NEREM;JEKELI;KAULA	JA	JGR	926
Temporal Variations of the Earth's Gravitational Field from Satellite Laser Ranging	NEREM;KLOSKO;PAVLIS; WILLIAMSON	PR	EGS	926
Monitoring of Global Sea Level Variations Using TOPEX/POSEIDON Altimeter Data	NEREM;KOBELINSKY	JA	TOP/POS	926

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Results from An Analysis of the First Year and a Half of TOPEX/Poseidon Altimeter Data	NEREM;KOBELINSKY;BECKLEY; KLOSKO;PAVLIS;WILLIAMSON; SCHRAMA	PR	EGS	926
Improved Geopotential Models from Satellite Tracking, Altimeter and Surface Gravimetry	NEREM;LERCH;MARSHALL; KLOSKO;PAVLIS;PATEL;CHAN; WILLIAMSON;PAVLIS	PR	EGS	926
A Preliminary Evaluation of Ocean Topography from the TOPEX/Poseidon Mission	NEREM;SCHRAMA;KOBELINSKY; BECKLEY	JA		926
Breaking the Numerical Integration of Satellite Orbits into Force Model Components for Increased Computational Efficiency	ROWLANDS;McCARTHY; TORRENCE;WILLIAMSON	JA	JOAS	926
Orbital Evolution of LAGEOS and Etalon Satellites	TORRENCE;DUNN;KOLENKIEWICZ	PR;JA	COSPAR	926
The Proportional Counter Array (PCA) Instrument for the X-ray Timing Explorer Satellite (XTE)	GLASSER;ODELL;SEUFERT	PR	IEEE	930
Digital Libraries	HALEM	PR	RUTGERS	930

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Confirmation of Interstellar Methylene	HOLLIS;JEWELL;LOVAS	JA	APJ	930
The Dynamic Interaction of the Solar Wind with Earth	KAZEMINEZHAD;ZALESAK; SPICER;CURTIS	PR	AGU	930
Detection of Interstellar N ₂ O: A New Molecule Containing a N-O Bond	SIURYS;APPONII;HOLLIS;SNYDER	JA	APJL	930
Three Dimensional Modeling of the Terrestrial Magnetosphere with an Adaptive Mesh Refinement Finite Element MHD Code	SPICER;ZALESAK;LOHNER; CURTIS	PR	COSPAR	930
The Global Dynamics of Flux Ropes in the Earth's Magneotail	SPICER;ZALEZAK;CURTIS; LOHNER	PR	AGU	930
Single-Event Effects on Associated Electronics for Fiber-Optic Systems	STASSINOPoulos	PR;CP	SPIE	930
Multiple Upsets and Bit Reversals for One Second Resolution Measurements, and Long-Term Annealing Data	STASSINOPoulos	JA	IEEE	930

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A Simple Algorithm for Predicting Proton SEU Rates in Space Compared to the Rates Measured on the CRRES Satellite	STASSINOPoulos;BARTH	JA;PR	IEEE	930
New Detections of Interstellar HNO at 2 and 1.2mm: More N-O Bonds	ZIURYS;HOLLIS;SNYDER	JA	APJ	930
Parallel Registration of Multisensor Remotely Sensed Imagery Using Wavelet Coefficients	LeMOIGNE	PR	SPIE	930.1
A Parallel Implementation of Multi-Resolution Wavelet Decomposition	LeMOIGNE;El-GHAZAWI	JA	IEEE	930.1
Progressive Vector Quantization on a Massively Parallel SIMD Machine with Application to Multispectral Image Data	MANAHAR;TILTON	JA	IEEE	930.1
Proceedings of the 1994 Space and Earth Science Data Compression Workshop	TILTON	CP	DCW	930.1
Architecture-Independent Computing: Language Extensions	DORBAND	JA;PR	FRONTIERS	934

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
An Implementation of a Tree Code on a SIMD, Parallel Computer	DORBAND;OLSON	JA	APJ-S	934
The Practicality of SIMD for Scientific Computing	FISCHER;HAMET;MOBARRY; PEDELTY;COHEN;deFAINCHEIN; FRYXELL;MacNEICE;OLSON; STERLING	JA	FRONTIERS	934
Implementation of a Compressible Fluid Dynamics Code on a Clustered MasPar MP-2	FRYXELL;DORBAND;RANAWAKE	JA;PR	FRONTIERS	934
Morphological Image Processing on Parallel and Distributed Computers	PEDELTY	PR	ADASS	934
Morphological Filtering of Infrared Cirrus Emission on Parallel and Distributed Computers	PEDELTY;APPLETON;BASART; CHARMANDARIS	PR	ADASS	934
Mapping Morphological Filters onto High-Performance Computing Systems	PEDELTY;EL-GHAZAWI	PR	SUPER93	934
Advection Algorithms on a Sphere Using an Unstructured Triangular Mesh	ZALESAK	PR	CHAMMP	934

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Three-Dimensional Modeling of the Terrestrial Magnetosphere with a Finite Element MHD Code	ZALESAK;LOHNER;SPICER; CURTIS	PR	AGU	934
Proceedings of the 1994 Science Information Management and Data Compression Workshop	TILTON, Editor	CP	NASA	935
CRUSH: A Comparative Lossless Compression Package	TILTON;SEILER	PR	IGARSS	935
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Pinatubo Project: Climate Simulations as Part of GISS Summer Institute	HANSEN	PR	NATO	940

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Detailed Balance in Far-Wing Line Shape Theories: Comparisons Between Different Formalisms	MA;TIPPING;HARTMAN;BOULET	JA	JCP	940
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<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A Global Atmosphere-Ocean Model for Climate Studies Part I: Model Formulation	RUSSELL	JA	AT-O	940
Use of Microwave Brightness Temperatures With a General Circulation Model	SHAH;RIND	JA	JGR	940
Luminous Blue Variables at Quiescence: The Zone of Avoidance in the Hertzsprung-Russell Diagram	STOTHERS;CHIN	JA	APJ	940
Test of Two Convection Theories for Red-giant and Red Supergiant Envelopes	STOTHERS;CHIN	JA	APJ	940
Modeling of Mineral Dust in the Atmosphere: Sources, Transport, and Optical Thickness	TEGEN;FUNG	JA	JGR	940
Global, Multiyear Variations of Optical Thickness with Temperature in Low and Cirrus Clouds	TSELIoudis;ROSSOW	JA	JGR	940
Numerical Simulation of Flow Data Over Two-Dimension Hills	YING;CANUTO;YPMA	JA	BLM	940

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Calculations of Surface and Top of a Atmosphere Radiative Fluxes from Physical Quantities Based on ISCCP Datasets. Part I: Method and Sensitivity to Input Data Uncertainties	ZHANG;ROSSOW;LACIS	JA	JGR	940
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The Second SeaWiFS Intercalibration Round-Robin Experiment, SIRREX-2, June 1993	MUELLER;JOHNSON;CROMER; COOPER;MCLEAN;HOOKER; WESTPHAL	TM	NASA	970.2
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Using the Ratio of Euphotic Depth to Mixed-Layer Depth to Predict Phytoplankton Composition: An Evaluation	BROWN;ESAIAS;THOMPSON	JA	LAO	971
Short- and Long-Term Behavior of Polar Sea-Ice Covers from Satellite Passive-Microwave Observations	CAMPBELL;GLOERSEN;ZWALLY	JA	JGR	971

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Sea-Ice Parameters from Satellite Passive Microwave Imagers	CAVALIERI	PR	PDSWK	971
Early Stages of Sea-Ice Growth Observed With Satellite Data	CAVALIERI	PR	IGARSS	971
Meridional Ekman Heat Transport: Estimates from Satellite Data	CHIRARDELLI;RIENECKER; ADAMEC	JA	JPO	971
The Southern Ocean from Space: Long- and Short-Term Variabilities of Sea Ice, Temperature, and Ocean Color	COMISO	PR	L-D	971
Sea-Ice Geophysical Parameters from SMMR and SSM/I Data	COMISO	JA	CRC	971
Remote Sensing of the Arctic	COMISO	JA	JGR-O	971
MIMR International Science Team - Cryosphere Group Effort	COMISO	PR	MIMR	971

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Antarctic Sea Ice Passive Microwave Signatures During Summer and Autumn	COMISO;ACKLEY	PR;CP	IGARRS	971
Antarctic Passive Microwave Signatures During Summer and Autumn	COMISO;ACKLEY	PR	IGARSS	971
The Effect of Wind Forcing on the Antarctic Sea Cover	COMISO;ATLAS	PR	AGU	971
ENSO Frequency Components in the Global Sea Ice Covers	GLOERSEN	JA	NATURE	971
Simulated Interannual Variability of Water Mass Formation in the Greenland Sea and its Connection to Surface Forcing	HAKKINEN	JA;PR	JGR;AGU	971
Simulated Interannual Variability of the Nordic Seas and the Arctic Ocean	HAKKINEN	PR	ODU	971
Calibration and Validation Activities in Support of the SeaWiFS and MODIS-N Projects	HOOKER	PR	EGS	971

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Monopole and Dipole Ring Interaction with the Gulf Stream	HOOKER	PR	EGS	971
Forecasting the Evolution of a Warm Core Ring	HOOKER	PR	EGS	971
Myopia and Remote Sensing	HOOKER	PR	ODU	971
Warm Core Ring Dynamics Derived from Satellite Imagery	HOOKER;BROWN	JA	JGR	971
Non-linear Evolution of Water Waves	HUANG	PR	ONR	971
A Third Order Correction to the Nonlinear Schrodinger Equation	HUANG;LIN;LONG	JA	JOFM	971
Wave-Fusion as a Mechanism for Nonlinear Wave Evolution	HUANG;LIN;LONG	PR	AGU	971

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Goddard Coastal Wave Model Part II. Dynamics of Source Functions	HUANG;LIN;LONG	PR	AIRSEA	971
Wave Fusion as a Mechanism for Nonlinear Evolution of Water Waves	HUANG;LONG	JA	JOFM	971
Global Ocean Phytoplankton Production Components Determined Using Chlorophyll Data Derived from CZCS Imagery	IVERSON;ESAIAS	PR	USJOOFS	971
TOPEX/POSEIDON Estimates of Global Topography and Circulation with Tidal Corrections	KOBLINSKY;KLOSKO;BECKLEY;NE REM;WILLIAMSON;BOON; TSAOUSSI;BOONE;SCHRAMA	PR	SA-O	971
The Goddard Coastal Wave Model Part II: Kinematics	LIN;HUANG	JA	JPO	971
The Goddard Coastal Wave Model Part I. Numerical Method	LIN;HUANG	JA	JPO	971
Nonlinear Wave-Wave Interactions in Intermediate Waters	LIN;HUANG	PR	AGU	971

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Goddard Coastal Wave Model Part 1. Numerical Method and Kinematics	LIN;HUANG	PR	AIRSEA	971
Nonlinear Internal Waves Observed Northeast of Taiwan by ERS-1 SAR	LIU;MICKETT	PR	PORSEC	971
Swell Effects on Wind Stress Vector and Wind Wave Modulation During SWADE	LIU;MOLLO-CHRISTENSEN; HUANG;PENG	PR	AIRSEA	971
Wave Evolution in the Marginal Ice Zone Using ERS-1 SAR	LIU;PENG	PR	IGARSS	971
Vortex Shedding Behind the Islands in the Marginal Ice Zone	LIU;PENG	PR	FI	971
Direction and Magnitude of Wind Stress Over Wave Groups Observed During SWADE	LIU;PENG;CHAPRON; MOLLO-CHRISTENSEN;HUANG	JA	AT-O	971
Ocean-Ice Interaction in the Marginal Ice Zone Using SAR	LIU;PENG;WEINGARTNER	JA	JGR-O	971

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The SeaWiFS Data Analysis System, SEADAS	McCLAIN;SCHIEBER;FU	PR	AGU	971
Observations and Simulations of Physical and Biological Processes at OWS P	McCLAIN;TAI;ARRIGO	PR	AGU	971
Spatial Patterns in the Length of the Sea-ice Season in the South Polar Region, 1979-1986	PARKINSON	JA	JGR	971
A Review of the Book <u>Glaciers of Europe</u>	PARKINSON	JA	BAMS	971
Identification of Moving Boundaries of Surface Climate Variables in the North Polar Region Through Mapping Within-Month Variances of Microwave Emissions	PARKINSON	PR	IGS	971
Assimilation of Altimeter Data Into a Quasigeostrophic Ocean Model Using Optimal Interpolation and EOFs	RIENECKER	PR	SA-O	971
A Comparison of Surface Wind Products Over the North Pacific Ocean	RIENECKER;ATLAS;SCHUBERT; SCHOLZ	JA	JGR-O	971

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Role of Sea Ice in 2xCO ₂ Climate Model Sensitivity	RIND;HEALY;PARKINSON; MARTINSON	JA	JOC	971
Hindcasting El Nino with a Reduced Gravity Isopycnal Ocean Model	SCHOPF;LOUGHE	JA	MWR	971
Surface Mass Balances on Ice Sheets and Variations in Sea-Ice Extent: Implications for Sea-Level Change	SWALLY;GIOVINETTO;BENTLEY	PR	ICSI	971
The Development of the Odden Ice Tongue in the Greenland Sea During Winter 1993 from Remote Sensing and Field Observations	WADHAMS;PRUSSEN;COMISO; WELLS;CRANE;BRANDON; ALDWORTH;VIEHOFF;ALLEGRINO	JA	JGR-O	971
On the Role of Mixing in Simulating the Equatorial Undercurrent	YU;SCHOPF	PR	AGU	971
Ice Sheet Topography from ERS-1 Radar Altimetry	ZWALLY;DIMARZIO;BRENNER; SEISS	PR	EGS	971
Distribution of Surface Accumulation in Antarctica and Greenland as Derived from Passive Microwave Data	ZWALLY;GIOVINETTO	PR	ISCRY	971

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Estimating Surface Mass Balances on Ice Sheets from Remotely-Sensed Data	ZWALLY;GIOVINETTO;BENTLEY	PR	ICSI	971
Veering Wind Effects on Scatterometry from the Sea-Surface	BLIVEN;BILLAT;SOBIESKI; GUISARD;BRANGER; GIOVANANGELI	PR;CP	IGARSS	972
An Assessment of Veering Wind Effects on Scatterometry from the Sea Surface	BLIVEN;BILLAT;SOBIESKI; GUISARD;BRANGER; GIOVANANGELI	JA;PR	JORS;ONR	972
Presenting the Rain-Sea Interaction Facility	BLIVEN;ELFOUHAILY	RP	NASA	972
Presenting the NASA/GSFC Rain-Sea Interaction Facility	BLIVEN;ELFOUHAILY	PR;CP	IGARSS	972
A Summary of Scatterometer Returns from Water Surfaces Agitated by Rain	BLIVEN;GIOVANANGELI; BRANGER;SOBIESKI	BOOK CHPT.	AIRSEA	972
Friction Velocity Estimation Using Dual-Frequency Altimeter Data	BLIVEN;SOBIEKSI;GUSSARD; BRANGER	JA;GD	AIRSEA	972

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Role of an Oblique Swell on Scatterometry: A Laboratory Study	BRANGER;GIOVANAGELI;REUL; SOBIESKI;BLIVEN	PR	AIRSEA	972
Spectral Description of Short Waves Inferred from Radar Sea Echo	CHAPRON;VANDEMARK	PR;CP	PIERS	972
Radar Backscatter Algorithms Related to Ocean Wave Spectra	CHAPRON;VANDEMARK	PR;CP	IGARSS	972
Engineering Performance Analysis of the TOPEX Radar Altimeter	HAYNE;HANCOCK III;PURDY	PR	IGARSS	972
The Corrections for Significant Waveheight and Attitude Effects in the TOPEX Radar Altimeter	HAYNE;HANCOCK III;PURDY; CALLAHAN	JA	JGR-O	972
Asymmetrical Spectral Curvature Algorithms: Oceanic Constituents Sensitivities and Self-Calibration	HOGE	JA	AO	972
Oceanic Radiance Model Development and Validation: Application of Airborne Active-Passive Ocean Color Spectral Measurements	HOGE;SWIFT;YUNGEL	JA	JGR	972

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
The Goddard Coastal Wave Model, Part II: Dynamics of Source Functions	HUANG;LIN;LONG	PR	AIRSEA	972
Accuracy of Airborne Laser Altimetry Over the Greenland Ice Sheet	KRABILL;THOMAS;MARTIN; SWIFT;FREDERICK	JA	IJRS	972
Greenland Ice Sheet Topographic Mapping Using Combined Airborne Laser and GPS Technology	KRABILL;THOMAS;SWIFT; FREDRICK;MANIZADE	PR	IEEE;IGARSS	972
A Controlled Environment for Air-Sea Interaction Studies	LONG	JA	IEEE	972
Thermistor Corrections: The NASA Model vs. Multi-Thermistor Measurements	SCHMIDLIN	PR	TECO	972
Thermal Wind Analysis of the Cold Mesopause	SCHMIDLIN	PR	EGS	972
Evidence of Strong Thermal Advection at the Cold Summer Mesopause	SCHMIDLIN	PR	COSPAR	972

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Comparison of Two Models for Radar Scattering From Rain Perturbed Water-Surface	SOBIESKI;COLLOT;BLIVEN	JA	URSI	972
Comparison of Two Models for Radar Scattering From Rain Perturbed Water-Surface	SOBIESKI;COLLOT;BLIVEN	PR	URSI	972
Airborne ROWS Data Report for the High Resolution Experiment, June 1993	VANDEMARK;BAILEY;HINES; STEWART	TM	NASA	972
Observations with the ROWS Instrument During the Grand Banks Calibration/Validation Experiments	VANDEMARK;CHAPRON	PR	ESA	972
Radar Ocean Wave Spectrometer (ROWS) Dat Summary for the High Resolution Program Experiment 2	VANDEMARK;CHAPRON	PR	ONR	972
A Field Validation of TOPEX Altimeter Sigma-Naught	VANDEMARK;CHAPRON	JA	JGR	972
Application of Radar and Laser Systems to Ocean and Ice Remote Sensing	VANDEMARK;KRABILL;WALSH; HOGE;CLEM	PR	ARSC	972

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Airborne Lidar Measurements of Dissolved Organic Matter Fluorescence in Surface Waters	VODACEK;SWIFT;YUNGEL;PELTZER;BLOUGH;HOGE	JA	NATURE	972
Scanning Radar Altimeter Measurements of Sea Surface Mean Square Slope During TOGA COARE and Its Relationship to SST and Internal Waves	WALSH;HAGAN;ROGERS;VANDEMARK;SWIFT;SCOTT	PR	IGARRS	972
Wave-Current Interaction During SWADE, Part 1: Observations	WALSH;SHAY;GRABER;GUILLAUME;VANDEMARK;HINES;SWIFT;SCOTT	PR	AIRSEA	972
Wind Stress Versus Sea Surface Mean Square Slope Measured with a 36-GHz Scanning Radar Altimeter	WALSH;VANDEMARK;JENSEN;HINES;BANNER;FANDRY;LEE;SCOTT;CHEN;REID;SWIFT	CP	AIRSEA	972
Diurnal Cycle of Oceanic Precipitation from SSM/I Data	CHANG;CHIU;YANG	JA	MWR	974
Microwave Inversion of Surface Roughness from Vegetated Terrains: A Two-Frequency Technique	CHAUHAN;ENGMAN	PR	ESSRS	974
Microwave Brightness Temperature from Bare and Vegetated Terrain: Comparison of Theory with ESTAR Radiometer Data	CHAUHAN;LeVINE;O'NEILL;LANG	CP	IGARSS	974

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Oceanic Rain Rate Parameters Derived from SSM/I	CHIU;CHANG	PR	CLIMCON	974
Relations Between Optical and Passive Microwave Vegetation Indices to Crop Biomass Characteristics	CHOUDHURY	CP	IGARRS	974
Estimating Transpiration from Meteorological Satellite Data: Concepts and Preliminary Results	CHOUDHURY;DeBRUIN	PR	COSPAR	974
Relations Between SMMR 37-GHz Polarization Difference and Rainfall, and Atmospheric Carbon Dioxide Concentration	CHOUDHURY;DiGIROLAMO	JA	IJRS	974
On the Relation Between SMMR 37-GHz Polarization Difference and Rainfall Over Africa and Australia	CHOUDHURY;DiGIROLAMO	TM	NASA	974
Modeled and Observed Relations Between the AVHRR Split Window Temperature Difference and Precipitable Water Over Land Surface	CHOUDHURY;DORMAN;HSU	JA	RSE	974
The Potential of SAR in Hydrology	ENGMAN	CP	IGARRS	974

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Remote Sensing of Surface Wetness	ENGMAN	PR	GSW	974
Snow Cover and Snow Mass for North America and Eurasia from General Circulation Models, Remote Sensing Observations and Climatological Data	FOSTER	PR	GEWEX	974
Snow Mass in Boreal Forests Derived from a Modified Passive Microwave Algorithm	FOSTER;CHANG;HALL	PR	ESSRS	974
Snow Cover and Snow Mass Intercomparison from General Circulation Models and Remotely-Sensed Data Sets	FOSTER;LISTON;KOSTER; ESSERY;BEHR;DUMENIL; VERSEGHY;THOMPSON; POLLARD;COHEN	JA	JOC	974
Remote Sensing of Cryospheric Processes	HALL	PR	OSU	974
Moderate Resolution Imaging Spectroradiometer (MODIS) Snow-Cover Algorithm Development	HALL	PR	UCO	974
Analysis of Frozen Lakes in Northern Montana and Implications for Climate Studies	HALL;FAGRE;KLASNER; LINEBAUGH;LISTON	JA	JGR	974

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Determination of Actual Snow Cover Using Landsat TM and Digital Elevation Model Data in Glacier National Park, MT	HALL;FOSTER;CHIEN;RIGGS	JA	POREC	974
Mapping Snow by Elevation Zone in Glacier National Park, Montana	HALL;FOSTER;RIGGS;CHIEN	JA	CPS	974
Mapping Snow by Elevation Zone in Glacier National Park, Montana	HALL;FOSTER;RIGGS;CHIEN	CP	CPS	974
Development of Methods and Analysis of Errors for Mapping Snow Cover Using Moderate Resolution Imaging Radiometer (MODIS) Data	HALL;RIGGS;SALOMONSON	JA	RSE	974
Glaciological Observations on Bruariokull, Iceland Using Landsat TM and ERS-1 SAR Data	HALL;WILLIAMS;SIGURDSSON	PR;JA	ISCRY;AOG	974
Diurnal Observations of Soil Moisture with Passive Microwave Radiometers	JACKSON;ALEKSA;SWIFT; O'NEILL;KOSTOV	CP	IGARSS	974
Coupling Mesoscale Meteorology and Hydrology Simulation Models: A Strategy for Investigating Land/Atmosphere Interactions	JASINSKI;KUMAR;WETZEL; DUFFY;DRAVES;ENGMAN	PR;CP	AGU	974

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Coupling Mesoscale Meteorology and Hydrology Simulation Models: A Strategy for Investigating Large-Scale Land/Atmosphere Interactions	JASINSKI;KUMAR;WETZEL; ENGMAN	PR	IGCIP	974
Analysis of Supplemental PILPS Simulations	KOSTER	PR	GEWEX	974
The Relative Contributions of Land and Ocean Processes to Precipitation Variability	KOSTER;SUAREZ	JA;PR	JGR;GEWEX	974
An Energy Balance Model of Lake-Ice Evolution	LISTON;HALL	JA	JOG	974
Microwave Soil Moisture Prediction Through Corn in WASHITA '92	O'NEILL;CHAUHAN;JACKSON; LeVINE	CP	IGARRS	974
SAR Terrain Correction for Improved Soil Moisture Estimation in a Mountain Watershed	O'NEILL;HSU;SEYFRIED	CP	IGARSS	974
Microwave Brightness Temperature Measurements Over Bare Soil Surfaces	OWE	PR	ESSRS	974

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Surface Moisture Monitoring by Passive Microwave Techniques in Semi-Arid Environments	OWE;van de GRIEND	PR;CP;GD	UNESCO	974
Measurements of Atmospheric Water Vapor Using a Compact AlGaAs Laser Based DIAL Instrument	RALL;ABSHIRE;REUSSER; HUMPHREY	PR; CP	CLEO	974
A Snow Index for the Landsat TM and MODIS	RIGGS;HALL;SALOMONSON	PR,JA	IGARSS	974
Effect of the Land Surface Formulation on Climate Variability in a General Circulation Model	SCOTT;KOSTER;ENTEKHABI; SUAREZ	JA	JOC	974
Using Remotely Sensed Data to Estimate Surface Hemispherical Reflectance, Albedo and Absorbed Photosynthetic Active Radiation	TOLL;SHIREY;KIMES	CP;PR	IGARRS; IEEE	974
Into the 2nd Century of World Glacier Monitoring: Prospects and Strategies	WILLIAMS, JR.;HALL	JA	UNESCO	974
Intercomparison of Single Frequency Methods for Retrieving a Vertical Rain Profile from Airborne or Spaceborne Radar Data	IGUCHI;MENEGHINI	JA	JAOT	975

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Effect of Backscatter Enhancement from Discrete Scatterers Over a Rough Surface	LANG;LeVINE;CHAUHAN	PR	IEEE;URSI	975
Validation of a Discrete Scatter Model for Microwave Scattering from Corn	LeVINE;CHAUHAN;LANG	PR	PIERS	975
Status of ESTAR Validation: Results of WASHITA-92	LeVINE;JACKSON;KAO;GRIFFIS; SWIFT	PR;CP	IGARRS	975
Processing Strategies for the TRMM Radar	MENECHINI;IGUCHI	PR	CRL	975
TRMM Radar Team Meeting Report	MENECHINI;KUMAGAI	PR;GD	TRMM	975
Description of a Radar/Radiometer Method and Its Application to Airborne Measurements of Stratiform Rain	MENECHINI;WANG;KUMAGAI; IGUCHI	PR;CP	IEEE; IGARSS	975
An Airborne Millimeter-Wave Imaging Radiometer for Cloud, Precipitation and Atmospheric Water Vapor Studies	RACETTE;ADLER;GASIEWSKI;JACKSON;WANG;ZACHARIAS	JA	JAOT	975

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
TMI, A Microwave Radiometer for Precipitation from Satellite	SHIUE	PR	ISSRS	975
An Overview of the Applications of Microwave Radiometry for Remote Sensing of the Earth	SHIUE	PR	UL	975
Microwave Remote Sensing of the Earth	SHIUE	PR	NCU	975
Some Features Observed by the L-Band PBMR Over the Konza Prairie During 1985-1989	WANG	JA	JGR	975
Simultaneous Measurements of Atmospheric Water Vapor with MIR;Raman Lidar and Rawinsondes	WANG;MELFI;RACETTE; WHITEMAN;CHANG;FERRACE; EVANS;SCHMIDLIN	JA	JAM	975
Retrieval of Water Vapor Profiles Using Measurements from a Millimeter-Wave Imaging Radiometer	WANG;RACETTE;CHANG	PR	IEEE; IGARSS	975
Retrieval of Water Vapor Profiles with Millimeter-Wave Imaging Radiometer Under Cloudy Condition	WANG;SPINHIRNE;RACETTE; CHANG;HART	PR	AGU	975

<u>Title</u>	<u>Author</u>	<u>Doc.</u> <u>Type</u>	<u>Sponsor</u>	<u>NASA</u> <u>Code</u>
Remote Sensing of Precipitation From Combined Radar and Multi-Frequency Radiometric Measurements and from VLF Sferics Measurements in Support of NASA's Tropical Rainfall Measuring Mission	WEINMAN	PR	U MUN	975
Maritime Precipitation Distributions Determined from Airborne Radar and Multi-Frequency Radiometric Measurements	WEINMAN;SCHOLS	PR	IEEE;IGARSS	975

APPENDIX: SPONSOR ABBREVIATION LIST

SPONSER ABBREVIATION LIST

2COMP	Second Compton Symposium
2TOP	Second Topical Meeting
23CRC	23rd Cosmic Ray Conference
23SAE	23rd International Conference on Environmental Systems
44IAC	44th International Astronautical Conference
44IAF	44th Conference of the International Astronomical Federation

A

A&A-L	Astronomy and Astrophysics-Letters
AA	Astronomy and Astrophysics
AADM	Adjoint Applications in Dynamic Meteorology Workshop
AAS	American Astronomical Society
ABWK	1993 NASA Aerospace Battery Workshop
AC	International Aerosol Conference
ACE	Advances in Cryogenic Engineering
ACS	American Chemistry Society
ADA-S	NASA Ada User's Symposium
ADASS	Astronomical Data Analysis Software and Systems
AEAP	AEAP Annual Meeting
AFP	"Current Topics in Astrofundamental Physics" course
AFWK	Dahlem Workshop in Aerosol Forcing
AGC-SEM	Alaskan Glacier Changes Seminar
AGN	Testing that AGN Paradigm
AGN-2	X-Ray Emission from AGN/Cosmic X-Ray Background Workshop
AGR	Agronomy Journal
AGSMP	Physics of Active Galaxies Symposium
AGU	American Geophysical Union
AGU-M	AGU Monograph - Remote Sensing of Sea Ice
AIAA	American Institute of Aeronautics and Astronautics
AIAATH	AIAA Thermophysics Conference
AIAOS	Astronomical Institute of the Academy of Sciences
AIBS	AIBS Symposium
AICHE	AICHE National Heat Transfer Conference
AIOP	American Institute of Physics
AIRSEA	Air-Sea Interface Symposium
AJOP	American Journal of Physics
AM-S	26th Aerospace Mechanisms Symposium
AMATHS	American Mathematical Society
AMC	Astrophysical Masers Conference
AMS	American Meteorological Society
AMS-M	American Meteorological Society Monograph Series
ANJ	Astronomical Journal
ANS-J	Astronomical Society of Japan
A-P	Asia - Pacific Radio Telescope Consortium Meeting
AO	Applied Optics
AOG	Annals of Glaciology
AOP	Annals of Physics
APC	Astrophysics Conference
APCA	Aspen Physics Conference on Astrophysics
APJ	Astrophysical Journal
APJ-S	Astrophysical Journal-Supplements
APJL	Astrophysical Journal Letters
APL	Applied Physics Letters
APL-JH	Applied Physics Laboratory, Johns Hopkins University
APM	Astrophysics Meeting on Clusters of Galaxies
APP	APS Topical Conference on Atomic Processes in Plasmas
APS	American Physical Society

SPONSER ABBREVIATION LIST

AR	8th Conference on Atmospheric Radiation
ARG	Capa de Ozone Y Radiacion Solars, Argentina Symposium
ARGPS	Argentine Physical Society
ARM	Andre Robert Memorial Symposium
ARSC	1st International Airborne Remote Sensing Conference and Exhibition
ASA	American Society of Agronomy
ASC	Astronomical Software Conference
ASE	Association of Space Explorers
ASGC	Arkansas Space Grant Consortium
ASNT	American Society for Nondestructive Testing, Spring Conference
ASR	Advances in Space Research
ASSL	Advanced Solid State Lasers
AST/COS	Particle and Nuclear Astrophysics and Cosmology in the Next Millenium
AST105	105th Meeting of the Astronomical Society
ASTDAT	3rd Conference on Astronomical Data Analysis Software and Systems
ASTPAC	Astronomical Society of the Pacific
ASU	Appalachian State University
ASW-US	International Conference AWS-USA & Paton Elect. Welding Inst.-USSR
AT-O	Atmosphere-Ocean
ATMARS	Workshop on the Atmosphere of Mars
ATU CC	ATU Chapman Conference
AUAS	Austria Academy of Sciences
AUB U	Auburn University

B

BAAS	Bulletin of the American Astronomical Society
BAMS	Bulletin of the American Meteorological Society
BFGG	Boreal Forests and Global Change Symposium
BLM	Boundary Layer Meteorology
BIO-S	Bio Science
BOC	7th BOC Priestley Conference
BRI	Bartol Research Institute
BSYMRS	Brazilian Symposium of Remote Sensing
BU	Beijing High-Energy Conference

C

CACGP	
CAPRI	CAPRI Cosmic Microwave Background Workshop
CAPT	International Conference on Applications of Photonic Technology
CAS	Canadian Astronomical Society
CASE	CASE-92, Manchester, England
CC	Conference on Climate Change
CCPO	Seminar at Center for Coastal Physical Oceanography
CCRS	Canada Center for Remote Sensing
CDW	Climate Diagnostics Workshop
CEBAF	Continuous Electron Beam Accelerator Facility (CEBAF)
CEC	Cryogenic Engineering Conference
CH-AM	Chinese-American Professionals Association Annual Conference
CH-SW	Coronal Heating, Stanford Workshop
CHAMMP	Workshop for the Numerical Solution of PDEs in Spherical Geometry
CHAP-2	Chapman Conference on Auroral Plasma Dynamics
CHAP94	Fall Chapman Conference, Water Vapor in the Climate System
CHAPMN	Chapman Conference, Micro/Meso Scale Phen. in Space Plasmas
CHKINE	3rd International Conference on Chemical Kinetics
CHPHLT	Chemical Physics Letters
CIT	California Institute of Technology

SPONSER ABBREVIATION LIST

CJRS	Canadian Journal of Remote Sensing
CLEO	Conference on Lasers and Electro-Optics
CLIMCON	Climatology Conference
CLUSTR	CLUSTER Steering Committee Implementation Working Group
CMA	China Meteorological Administration
CMDA	Celestial Mechanics and Dynamical Astronomy
CMES	Center of Marine Earth Science
CPD	Conference on Chondrules and the Protoplanetary Disk
COA	Comments on Astrophysics
COL	Conference on Lasers
COS-94	COSPAR Colloquim
COSPAR	COSPAR World Space Congress
CPA	Conference on Carbonaceous Particles in the Atmosphere
CPS	3rd Circumpolar Symposium on Remote Sensing of Arctic Environment
CRC	CRC Monograph
CRYOC	Cryocooler Conference
CRYOWP	Space CryoWorkshop
CSA	Canadian Space Agency
CSC	Centre for Scientific Culture
CSS	Cognitive Society Seminar
CU	Columbia University
CVCONF	Conference of Climate Variations
CW	Cosmic Winds Conference

D

DAW	Data Assimilations Workshop
DC	Dartmouth College, Hanover, NH
DCC	Data Compression Conference
DEE	Department of Electrical Engineering, Seminar at University of Idaho
DLR	DLR Colloquium
DOC	Department of Commerce, Lecture
DPA	Department of Physics & Astronomy, Haverford College, PA

E

EARTH	Earth Surfaces Processes in Land Forms
EBRS	Extragalactic Background Radiation Symposium
ECR	European Cosmic Ray Symposium
EFEDA	EFEDA Campaign Results, Workshop
EFSUM	Enrico Fermi Summer School
EGS	European Geophysical Society
EGS-A	European Geophysical Society Assembly, Edinburgh, Scotland
EHS	Edgemont High School, SD
EISYC	European International Space Year Conference
EL	Analysis of Emission Lines
ENDVR	Endeavour
EOCW	Encyclopedia of Climate and Weather
EOS	Earth Observing System
EOS-ST	EOS Interdisciplinary Science Team
ES	International Conference on Environmental Systems
ESA	European Space Agency
ESAPP	Expert Systems with Applications
ESLAB	Eslab Symposium, Killarney, Ireland
ESO	European Southern Observatory, High Resolution Imaging by Interferometry
ESO-2	ESO/EIPC Workshop, Elba, Italy
ESSRS	European Symposium on Satellite Remote Sensing
ESTAR	Evolution of Star Forming Regions

SPONSER ABBREVIATION LIST

ESTEC Spacecraft Guidance and Control Conference
ETC Eighth Toyota Conference

F

FANGIO FANGIO Workshop
FBMTG 1994 Winter Meeting of Study of Forest Biology
FBPP International Conference on Few Body Problems in Physics
FDDSYM 1994 FDD Flight Mechanics/Estimation Theory Symposium
FGW Forum on Global Warming
FI International Conference on Flow Interaction
FIAS-C (FIAS) Conference, Centre de Formation International Aeronautique et Spatiale
FMI Finnish Meteorological Institute
FRONTIERS Frontiers 95
FSU Florida State University
FTCOM International Symposium on Fault Tolerant Computing

G

G Geology
GBC Global Biogeochemical Cycles
GCNUCL Nuclei of Normal Galaxies
GCS 5th Conference on Global Change Studies
GEOSCI Department of Geological Sciences
GEWEX European Conference on the Global Energy and Water Cycle
GFM Types & Characteristics of Data for Geomagnetic Field Modeling
GGAGW Geophysical/Geochemical Aspects of Global Warming, CRC Press (1992)
GIS Conference on Integrating GIS and Environmental Modeling
GISS-S GISS Seminar
GJI Geophysical Journal International
GK International Conference on Gas Kinetics
GMU George Mason University
GO&CL Workshop for the Coordination of Ground-based Observations and Cluster
GRAST Gamma-ray Astrophysics
GR/NCC Gamma Rays/Neutrino Cosmology Conference
GRB Gamma-Ray Burst Workshop
GRC Gordon Research Conference—Solar MHD
GRL Geophysical Research Letters
GRS Gamma Ray Sky Conference
GRSYMP Gamma Ray Symposium
GSC General Sciences Corporation
GSW Global Soil Wetness Workshop
GTSS Grand Teton Summer School

H

HAS Helio- and Astero-Seismology from the Earth and Space
HAZMIT US-Taiwan Multiple Hazard Mitigation Symposium
HEA High-Energy Astrophysics
HEA Recent Advances in High Energy Astronomy Symposium
HEASTR High Energy Astrophysics (Meeting)
HKU Hong Kong University
HOTSTR Hot Stars in the Halo, Schenectady, NY
HPCN High Performance Computing and Networking
HRCOMP International Workshop on High-Resolution Compton Scattering
HRMS 13th Colloquim on High Resolution Molecular Spectroscopy
HST HST Workshop, Baia Chia, Sardinia, Italy
HSVLP The Harlow Shapley Visiting Lectureship Program, Penn State

SPONSER ABBREVIATION LIST

HTRANS National Heat Transfer Conference
HYMAN 2nd Annual Mid-Atlantic Hyman Factors Conference

I

IACG	Working Group 2 - Meeting on Data Exchange
IAF	IAF Congress, Montreal, Canada
IAP	Institute of Applied Physics
IAPG	Interagency Advanced Power Group
IAU	International Astronomical Union
IAUARG	IAU General Assembly, Buenos Aires, ARG
IAUHOA	International Astronomical Union Highlights of Astronomy
ICAP	XIII International Conference on Atomic Physics
ICARUS	Icarus
ICPC	Informal Conference on Photochemistry
ICR	International Conference on Radiometry
ICS	International Conference on Substorms
ICSTG	International Conference on Space, Time and Gravitation
ICTP	International Centre for Theoretical Physics
IEEE	Institute of Electrical and Electronics Engineering
IEEE-2	IEEE Conference on Plasma Science
IEEE-J	IEEE Journal of Quantum Electronics
IEPC	International Electronics Packaging Conference
IERS	International Earth Rotation Service
IES	IES 38th Annual Meeting Technical Excellence in Global Economy
IFAC	Symposium on Robust Control Design
IFAC2	Symposium on Automatic Control in Aerospace
IGARSS	International Geoscience and Remote Sensing Symposium
IJJC	Isreal Journal of Chemistry
IJMEP	International Journal of Microcircuits and Electronic Packaging
IJOC	International Journal of Climatology
IJRS	International Journal of Remote Sensing
ILRC	International Laser Radar Conference
IM	Institute of Mechanics
IMAC	International Modal Analysis Conference
INSTAR	INSTAR, Boulder, CO
IO	International Conference on IO
IOA	Institute of Astronomy
ION	Institute of Navigation
IPNP	Intersections of Particle and Nuclear Physics
IRAST	Infrared Astronomy with Arrays
IRIS	Incorporated Research Institution for Seismology
IRPHYS	5th International Conference on Infrared Physics
ISAS-GT	ISAS Workshop on Geotail
ISC	International Scientific Colloquim
ISCHEM	International School of Chemistry
ISCRY	International Symposium on the Role of the Cryosphere in Global Change
ISDC	International Space Development Conference
ISEEC	International Symposium on Electromagnetic Environments and Consequences
ISMM	ISMM Conf. on Computer Applications in Design, Simulation and Analysis
ISOP	International School of Physics-LaJolla
ISPRS	International Symposium "Physical Measurements and Signatures in Remote Sensing"
ISRAM	International Symposium on Robotics and Manufacturing
ISREM	International Symposium on Resource and Environmental Monitoring
ISS	Irvine Software Symposium, Irvine, CA
ISSFD	International Symposium of Spacecraft Flight Dynamics
ISSM	International Symposium on Software Metrics
ISSMO	International Symposium on Space Mission Operations and Ground Data Systems

SPONSER ABBREVIATION LIST

ISSRS	International Symposium on Satellite and Remote Sensing
ISSS	International School of Space Science
ISU	Iowa State University
ISY	International Space Year
ITC	International Telemeteric Conference
IUTAM	IUTAM Symposium
IWNT	International Workshop on Neutrino Telescopes

J

JAE	Journal of Arid Environments
JAM	Journal of Applied Meteorology
JAOT	Journal of Atmospheric & Oceanic Technology
JAPHYS	Journal of Applied Physics
JAR	Journal of Atmospheric Research
JAS	Journal of Atmospheric Sciences
JATP	Journal of Atmospheric and Terrestrial Physics
JCP	Journal of Chemical Physics
JCTHERM	Journal of Chemical Thermodynamics
JEMT	Journal of Engineering Materials and Technology
JGB	Journal of Global Biochemical
JGCD	Journal of Guidance and Control and Dynamics
JGD	Journal of Guidance and Dynamics (AIAA)
JGE	JGE
JGG	Journal of Geomagnetism and Geoelectricity
JGR	Journal of Geophysical Research
JGR-A	Journal of Geophysical Research - Atmospheres
JGR-O	Journal of Geophysical Research - Oceans
JGR-P	Journal of Geophysical Research - Planets
JOAS	Journal of the Astronautical Sciences
JOC	Journal of Climate
JOCE	Journal of Coastal Engineering
JOCR	Journal of Coastal Research
JOFM	Journal of Fluid Mechanics
JOG	Journal of Glaciology
JOP-A	Journal of Physics-A
JOPS	Journal of Power Sources
JOPT	Journal of the Optical Society
JORS	Journal of Remote Sensing
JOSR	Journal of Spectrometry and Radioactive
JPCHEM	Journal of Physical Chemistry
JPL	Jet Propulsion Laboratory
JPO	Journal of Physical Oceanography
JPP	Journal of Photochemistry and Photobiology
JSR	Journal of Spacecraft and Rockets
JSRS	Journal of Surtsey Research Society, Progress Report Volume X
JTAC	Journal of Theoretical and Applied Climatology

K

KAS	Kansas Academy of Sciences
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L

L-D	Lamont-Doherty Earth Observatory Student Seminar Series
LAEL-OPS	Lasers and Electro-Optics
LAGEOS	LAGEOS, Los Alamos, NM
LAHRS	Laboratory and Astronomical High Resolution Spectra

SPONSER ABBREVIATION LIST

LAO	Limnology and Oceanography
LASER	Laser Tech Briefs
LCSYM	International Symposium on the Life Cycles of Extra-tropical Cyclones
LDEF	LDEF Third Post-Retrieval Symposium
LIEGE	31st LIEGE Colloquium: Gravitational Lenses in the Universe
LPSC	Lunar and Planetary Science Conference
LR	International Workshop on Laser Ranging
LRPA	International Conference on Laboratory Research for Planetary Atmosphere
LTD5	5th International Workshop on Low-Temperature Detectors

M

MAGN	Magnetopause Workshop
MARCEL	7th Marcel Goossmann Meeting on General Reflectivity
METEOR	Meteoritics
MIMR	International MIMR Meeting
MIT	Massachusetts Institute of Technology
MITSPL	MIT Conference on Physics of Space Plasmas
MP	Mesoscale Processes Conference
MPI	Max Planck Institute
MRI	Meterology Research Institute
MRS	UN/China/ESA Workshop on Microwave Remote Sensing
MRWF	Medium Range Weather Forecast
MSFC	Marshall Space Flight Center
MSSTAR	Evolution of Massive Stars
MSU	Michigan State University
MUSCLE7	7th International MUSCLE Conference
MWR	Monthly Weather Review

N

NAG	The Nearest Active Galaxies, Inst. Historical Studies/Spanish Council of Research
NASA-T	NASA Technical Memorandum
NASAC	NASA Conference
NASAPS	NASA Pressure System Seminar
NASATT	NASA Center for Terahertz Technology
NASM	National Air & Space Museum
NAST-C	NASTRAN Users Colloquium
NAST-E	NASTRAN Users Experience
NATO	NATO Advanced Workshop
NATO-ASI	NATO ASI Series
NATURE	Nature
NAV	Navigation
NCAR	National Center for Atmospheric Research
NCCTC	NCC Technology Conference
NCGC	Nuclear Chemistry Gordon Conference
NCOSE	National Council of Systems Engineering
NCSC	NCSC and NIST
NCU	National Central University, Taiwan
NEPCON	NEPCON West '94, Anaheim, CA
NEWSCH	Newport School
NGW	National Geomagnetic Workshop
NHAM	Natural Hazard Assessment and Mitigation: The Unique Role of Remote Sensing
NIM	Nuclear Instruments and Methods
NLASTR	Advances in Non-Linear Astrodynamics
NNV	Nature, News and Views
NORDIC	Nordic Hydrology
NPA	International Conference on Neutrino Physics and Astrophysics

SPONSER ABBREVIATION LIST

NS	New Scientist
NSIA	National Security Industrial Association
NSO	National Solar Observatory
NSO/SP	NSO/SP Summer Workshop
NT	Neptune and Triton
NTC	Networks Technical Conference
NU	Northwestern University
NWP	Workshop on Numerical Weather Prediction in Tropics at NCMRWF, New Delhi, India

O

OBS/CLUS	Workshop for Coordination of Ground-based Observations and Clusters
ODU	Old Dominion University
OE	Optical Engineering
OMHPL	Optical Materials for High Power Lasers
ONR	ONR High Resolution Remote Sensing Program Workshop
OOPSLA	1994 ACM Conference Object-Oriented Programming Systems Languages and Applications
OPTCOM	Optics Communication
OPT-L	Optics Letters
OPTSOC	Optical Society of America
OSU	Ohio State University
OU	Oxford University
OUP	Oxford University Press
OZONE	Quadrennial Ozone Symposium

P

PAG	Pure and Applied Geophysics
PASJ	Publications of the Astronomical Society of Japan
PASP	Publications of the Astronomical Society of the Pacific
PBM	TOS Pacific Basin Meeting
PCHEM	Physics and Chemistry of Interstellar Molecular Clouds Meeting
PDSWK	Workshop on Polar Data Sets
PE	Physics Essays
PEC	1st World Conference on Photovoltaic Energy Conversion
PIERS	Progress in Electromagnetics Research Symposium
PIP-W	Physics of Isolated Pulsars Workshop
PLASMA	Interrelationship Between Plasma Experiments in Laboratories
PO	Paleoceanography
POF-A	Physics of Fluids-A
POREC	Polar Record
POST	The Washington Post Newspaper
PP III	Protostars and Planets, III, eds. Levy, Lunine, Matthews
PPC	Plenum Publishing Corporation
PR	Physical Review
PR-A	Physical Review A
PREPRN	Preprint
PRL	Physical Review Letters
PSU	Penn State University
PU	Princeton University
PURDUE	Purdue University
PVS	Pioneer Voyager Symposium
PWRI	Public Works Research Institute, Tsukuba, Japan

Q

QJRAS	Quarterly Journal of Royal Astronomical Society
QJRMS	Quarterly Journal of Royal Meteorological Society

SPONSER ABBREVIATION LIST

R

R&M	5th International Symposium on Robotics and Manufacturing
R-GEO	Reviews of Geophysic
RADGEN	International Workshop on Accelerated Radiation Generation in Space
RADIO	National Radio Science Meeting
RAL	Rutherford Appleton Laboratory
RAS	Monthly Notices of the Royal Astronomical Society
RAS-C	Royal Astronomical Society of Canada
RFC	Rochester FORTH Conference
RGO	Royal Greenwich Observatory Conference
RO&P	DOD Fiber Optics and Photonics Conference
ROE	Royal Observatory-Edinburg
ROYALSOC	Royal Society
RSE	Remote Sensing of Environment
RSR	Remote Sensing Reviews
RUTGERS	Rutgers University, New Brunswick, NJ

S

S&ECS	Space and Environmental Control System
S&T	Sky and Telescope
SA-O	Satellite Altimeter and the Oceans
SAAB	SAAB/PSSA Congress Symposium, Johannesburg, South Africa
SAAI	Goddard Conference on Space Applications of Artificial Intelligence
SAEASD	Society of Automotive Engineers, Avionics Systems Division
SANS	System Administration Networking and Security Conference
SCS	Society for Computer Simulation
SD	International Symposium on Space Dynamics
SDSMT	South Dakota School of Mines and Technology
SEDI	4th SEDI Symposium
SEES	Single Event Effects Symposium
SESAPS	SESAPS Meeting
SFDYN	International Symposium on Space Flight Dynamics
SIGCHI	SIGCHI Workshop
SIGF	SIGForth, Kansas City, MO
SMC	Software Maintenance Conference
SMW	Stratospheric Modelling Workshop
SNOVA	Workshop on Supernova Remnants and the Physics of Strong Shock Waves
SOHe	IAGG Solar-Heliospheric Workshop
SOHO	SOHO Workshop
SOLAR	Solar Physics
SP-OPS	Space Ops
SPACE	Symposium of Space
SPE	Society of Plastics Engineer
SPIE	Society of Professional Engineers
SPOIEC	Society of Photo-Optical Instrumentation Engineers Conference
SPRICE	Space Physics Seminar, Rice University
SPROME	International School of Space Physics, L'Aquila, Rome
SPRT	Space Photovoltaic Research and Technology Conference
SPS	Space Physics Seminar
SRB	GEWEX Surface Radiations Budget Workshop
SSC	Space Simulation Conference
SSDM	Structures, Structural Dynamics & Materials Conference
SSMT	Spacecraft Structures and Mechanical Testing
SSNPP	Symposium on Space Nuclear Power and Propulsion
SSPS	Shuttle Small Payloads Symposium

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SSR	Space Science Reviews
SSTP	Symposium on Solar Terrestrial Physics
STAR-C	Int'l. Software Testing Analysis and Review Conference
STHOLM	University of Stockholm
STP-W	Solar-Terrestrial Predictions Workshop
STSI	Space Telescope Science Institute
SUNSYM	Symposium on "A New Look at the Sun"
SUNY	SUNY, Stony Brook, New York
SUPER93	Supercomputing '93 and HPCC/ESS Science Team Meeting

T

T&I	Telematics and Informatics
TECH2003	Technology 2003 Workshop
TECO	World Meteorological Organization Technical Conference
THEMCON	ERIM 10th Thematic Conference for Geological Remote Sensing
TITAN	Symposium on Titan, European Space Agency
TMU	Tokyo Metropolitan University
TOP/POS	TOPEX/POSEIDON Research News
TRIEST	University of Trieste, Italy
TRMM	Tropical Rain Measuring Mission
TROPMET	National Symposium on Climate Variability at Institute of Tropical Meteorology
TU	Toronto University, Department of Physics
TU-J	Tohoku University, Japan

U

U CHI	University of Chicago
U KAN	University of Kansas
U MON	University of Montana
U MUN	University of Munich, Germany
UAM	University Autonoma de Madrid, Spain
UC	Union College, Schenectady, NY
UCAR	UNCAR Conference
UC-B	University of California-Berkeley
UC-R	University of California-Riverside
UCLA	University of California-Los Angeles
UCO	University of Colorado
UCSD	UCSD Seminar
UL	University of Louisville
UM	University of Maryland
UMBC	University of Maryland-Baltimore County
UMEX	University of Mexico Lecture Series: CINVESTAV del IPN; Department of Physics
UMINN	University of Minnesota
UNC	University of North Carolina
UNESCO	United Nations Educational, Scientific, and Cultural Organization
UOC	University of Chicago
UOFI	University of Iowa
UOS	University of Singapore
UOT	University of Tokyo
URSI	URSI National Radio Science Meeting
USINDIA	Workshop on "Geomagnetism in the Study of the Earth's Interior"
USJOOFS	JOOFS Steering Committee
UTN	University of Tennessee
UTORON	University of Toronto
UV/X	UV/X-Ray Spectroscopy of Astrophysical/Laboratory Plasmas International Colloquium

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V

VGMM	Venus Geologic Mappers Meeting
VLBI	VLBI Workshop
VNREPS	Van Nostrand Reinhold Encyclopedia of Planetary Sciences
VRS93	Virtual Reality Systems, Fall 1993

W

WEATHER	Weather
WEGENER	WEGENER Conference, St. Petersburg, Russia
WLU	Washington and Lee University
WMO	World Meteorological Organization
WPGM	Western Pacific Geophysics Meeting
WSC	World Space Congress

X

X/AST	New Horizon of X-ray Astronomy
X/BI	Evolution of X-Ray Binaries



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